LIBRARY OF THE
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

681
R275
v.2

The person charging this material is responsible for its return to the library from which it was withdrawn on or before the **Latest Date** stamped below.

Theft, mutilation, and underlining of books are reasons for disciplinary action and may result in dismissal from the University.

To renew call Telephone Center, 333-8400

UNIVERSITY OF ILLINOIS LIBRARY AT URBANA-CHAMPAIGN

NOV 1 1 1982

OCT 23 1992

OCT 1 8 1992

DUE: 6-4-93

FEB 1 1 1993

OCT 1 1 1995

L161—O-1096

Digitized by the Internet Archive
in 2015

https://archive.org/details/treatiseonclockw00reid

TREATISE

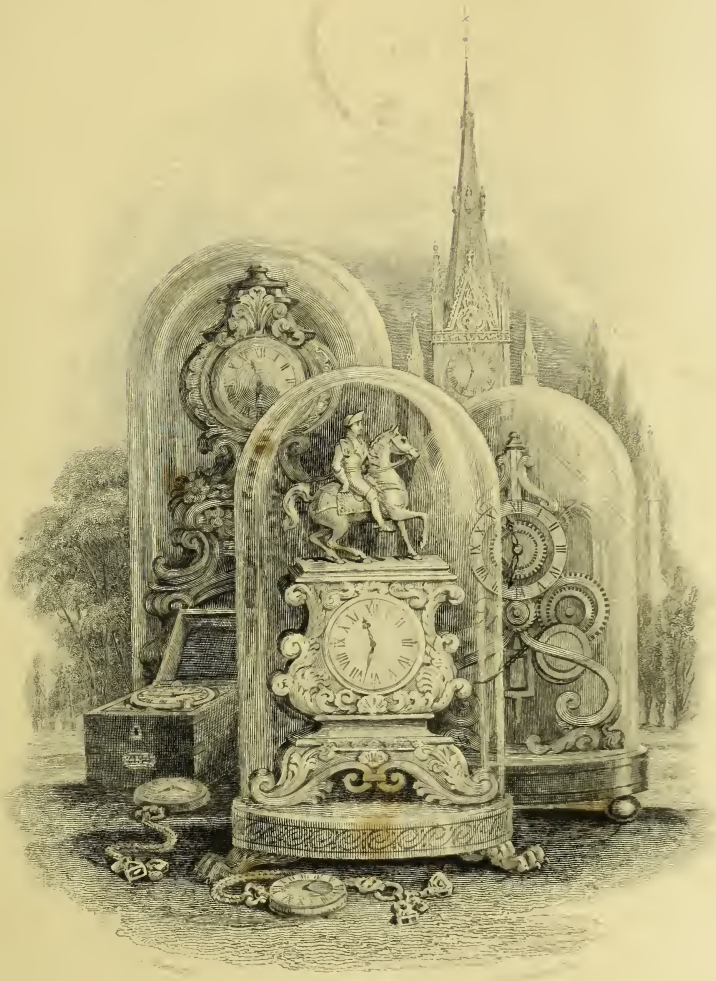
ON

CLOCK AND WATCH MAKING

THEORETICAL & PRACTICAL

BY

[illegible] DENISON



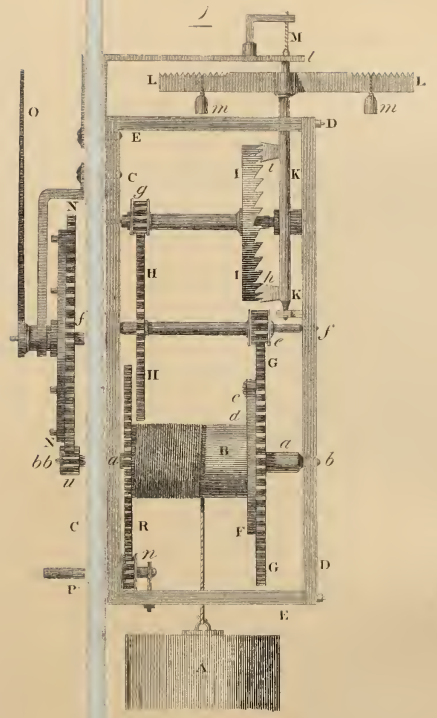
CHARLES & EDW.

[illegible]

681
P275
v. 2

AN ANCIENT CLOCK BY VICK

1



5

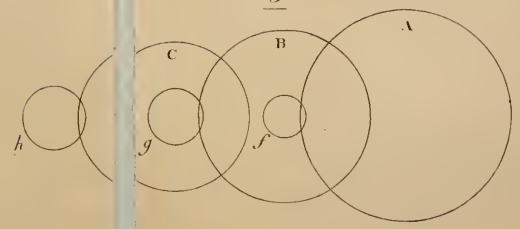
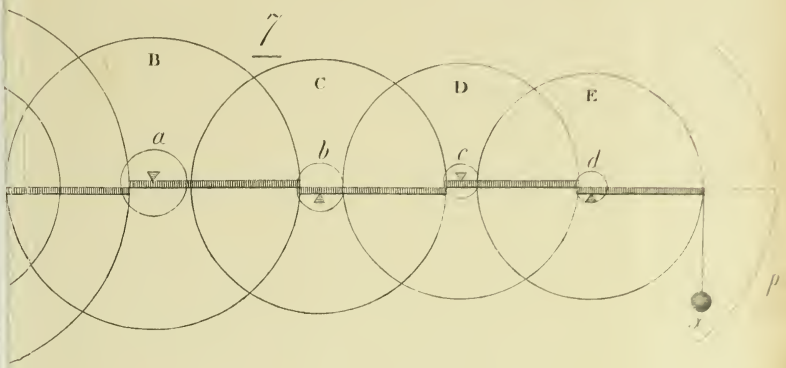
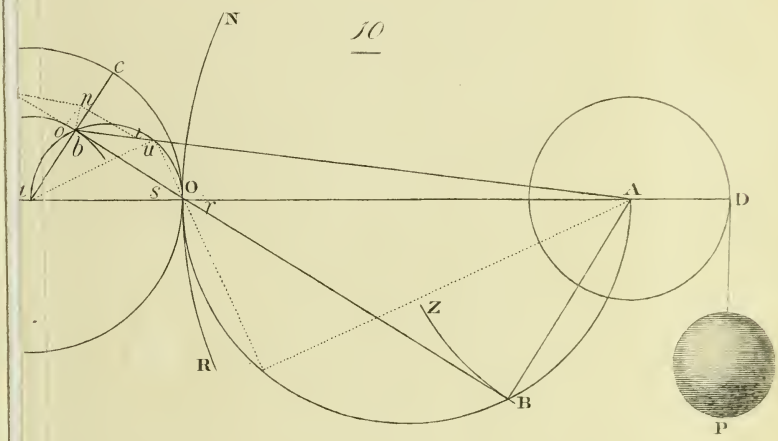
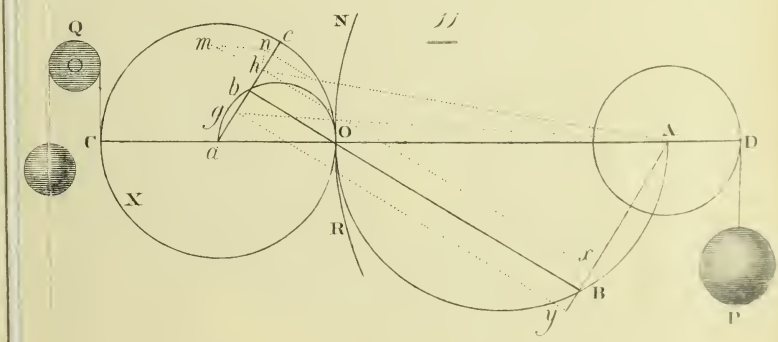
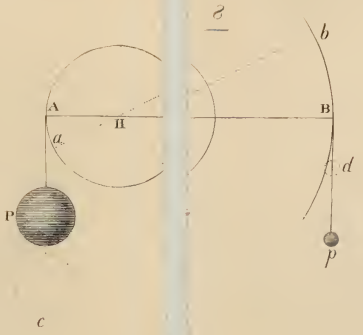


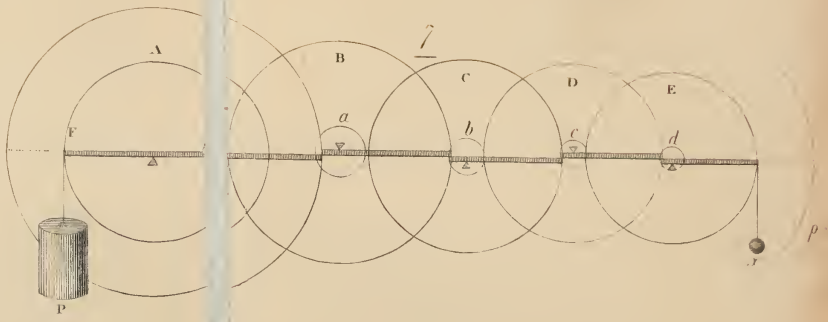
PLATE II.

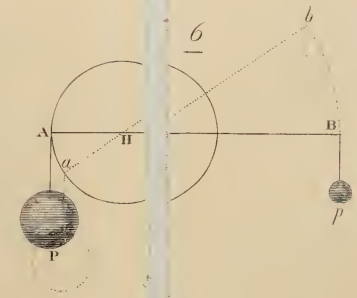


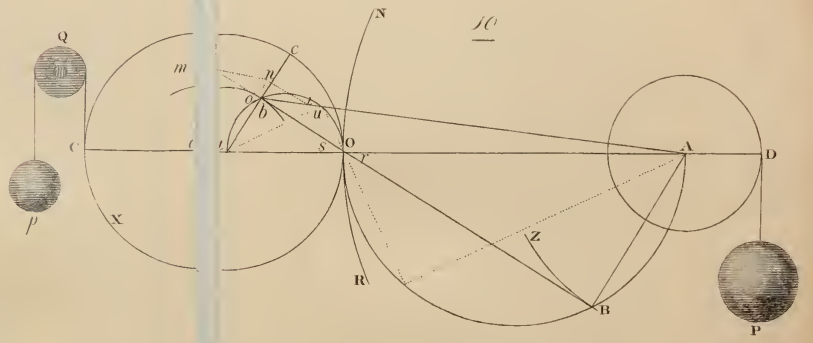


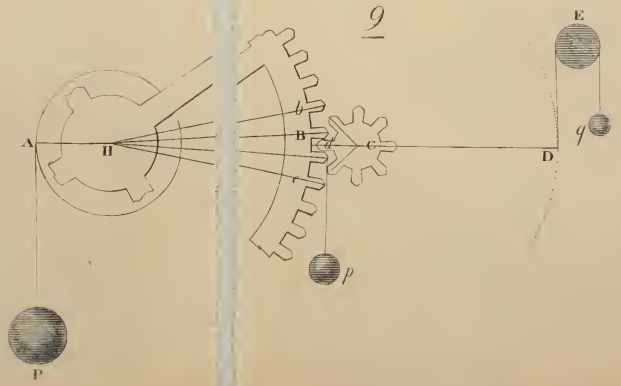



8
A
H
B
a
b
d
P
p
c


7
A
B
C
D
E
F
a
b
c
d
P
p


6
A
H
B
a
b
P
p


10
Q
N
m
n
c
o
b
l
u
t
s
O
r
C
A
D
X
Z
R
B
P
p


9
E
A
H
B
C
D
q
p
P

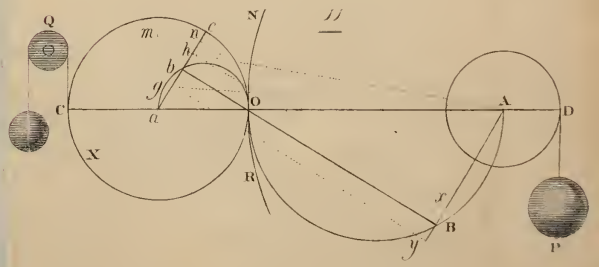
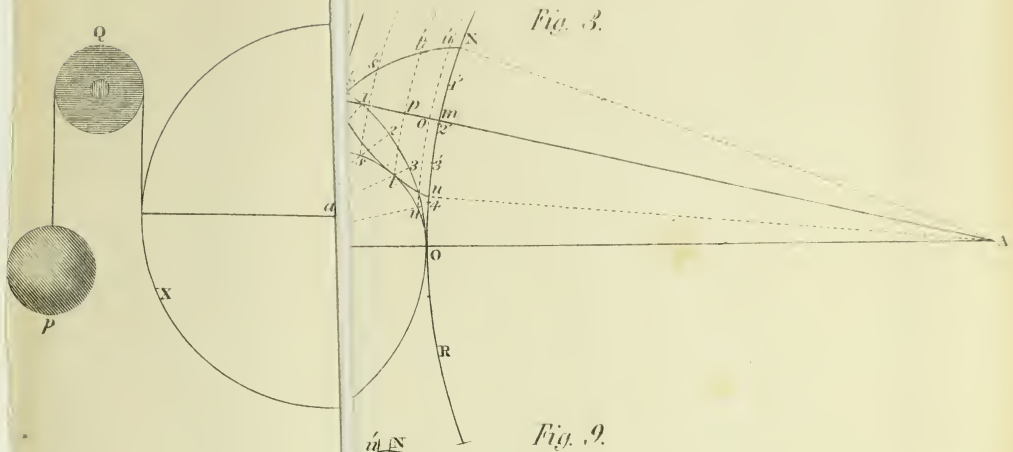
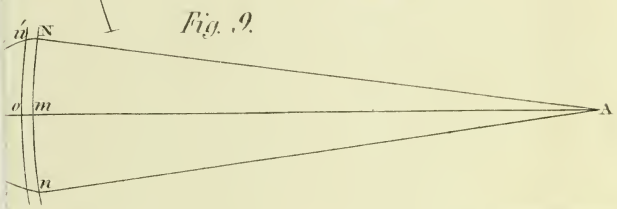

11
Q
N
m
n
c
h
b
g
a
O
C
A
D
X
R
x
y
B
P

PLATE II A





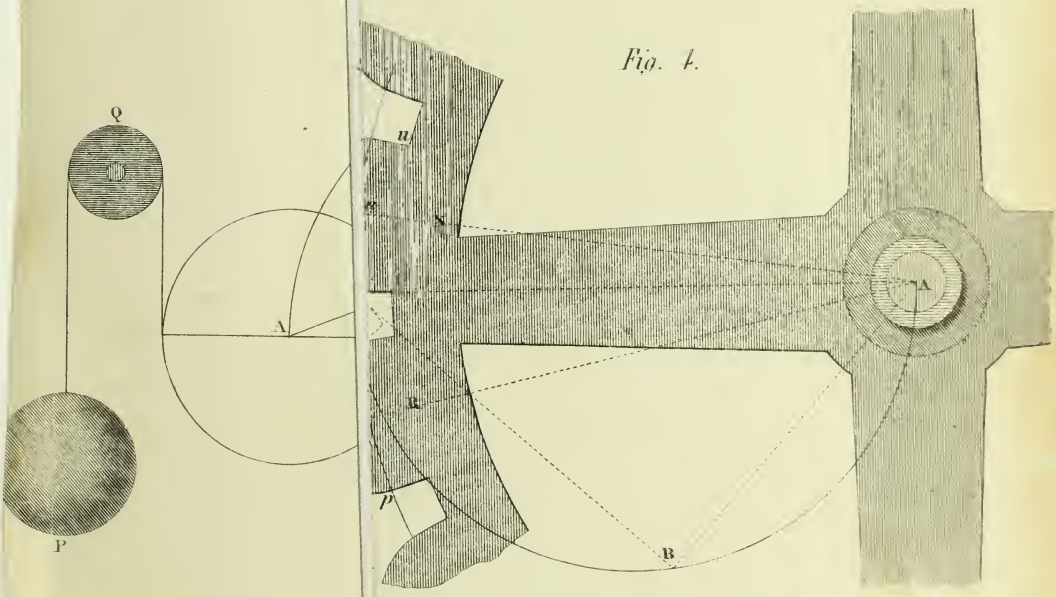


Fig. 1.

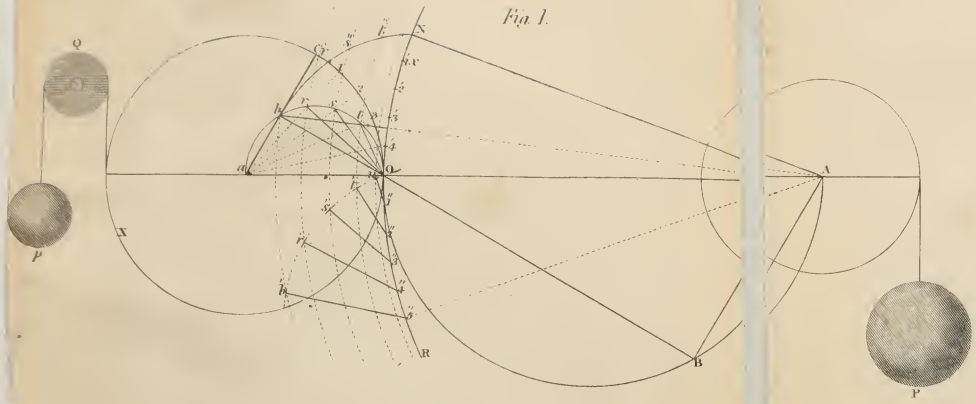


Fig. 3.

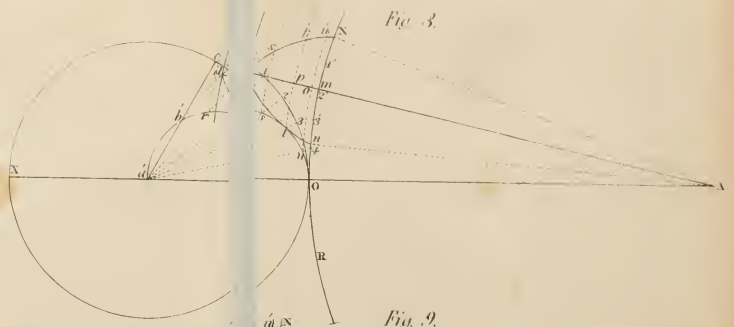


Fig. 9.

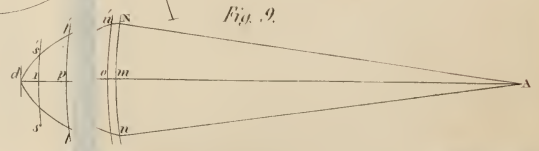


Fig. 2.

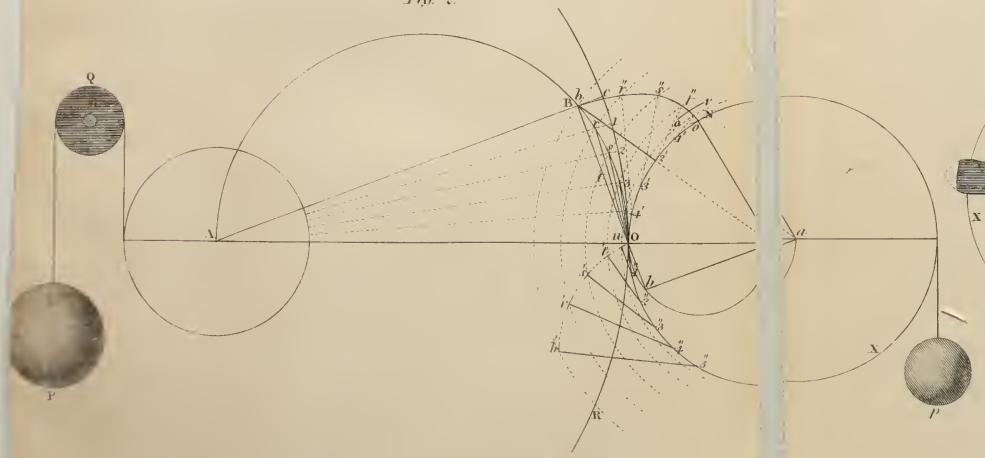


Fig. 4.

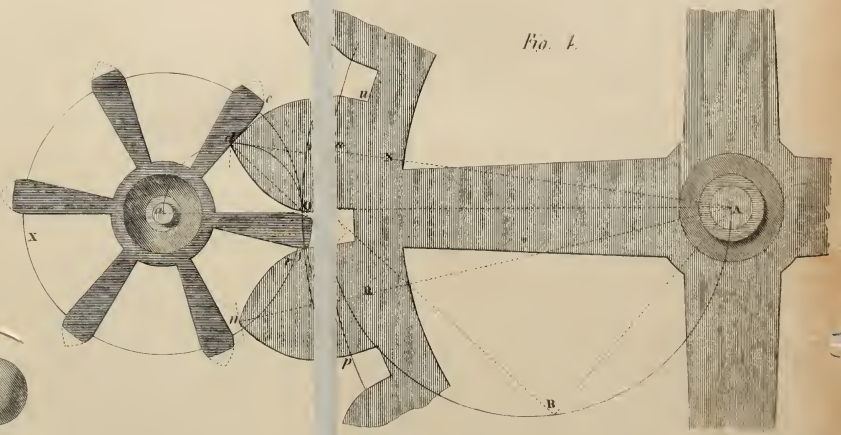
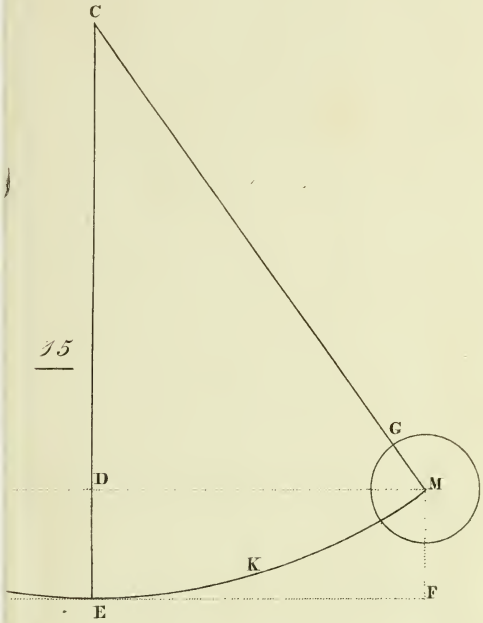
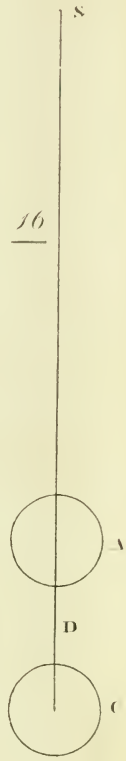
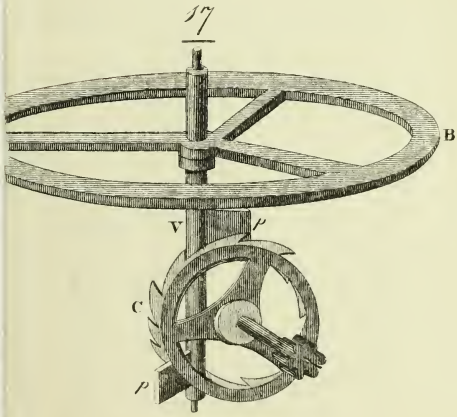


PLATE III.

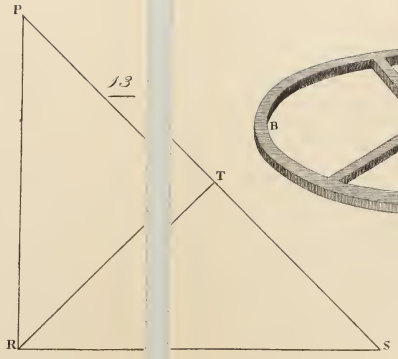




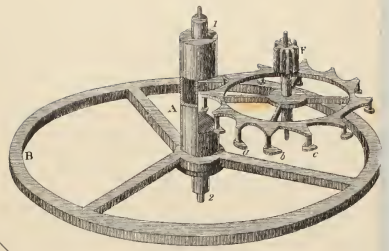


12

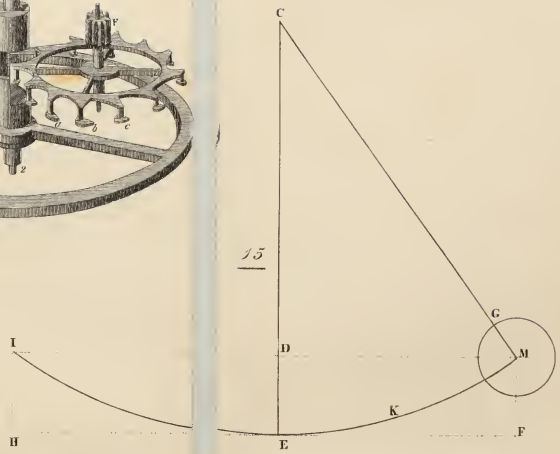
13



18

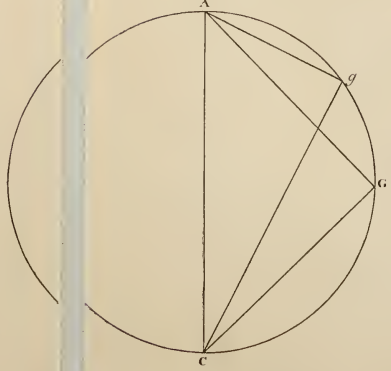


15



16

14



17

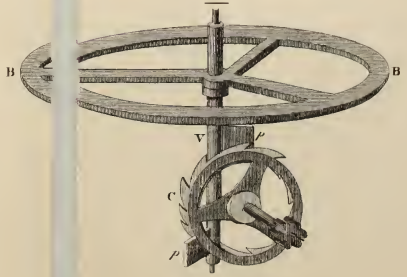
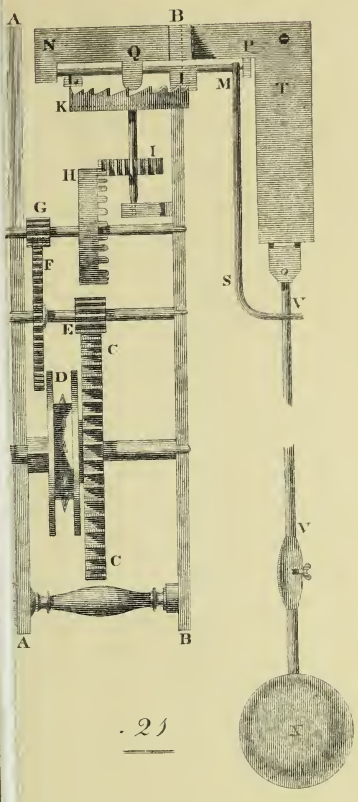
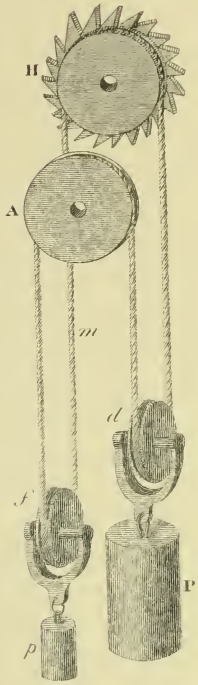


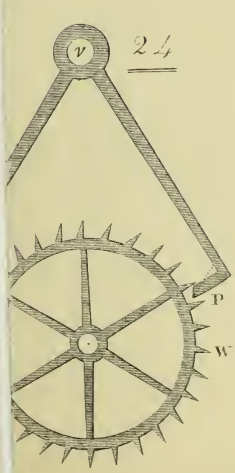
PLATE IV.



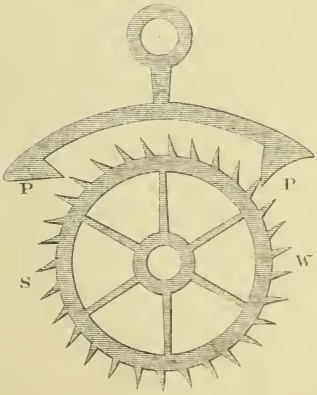
21



22

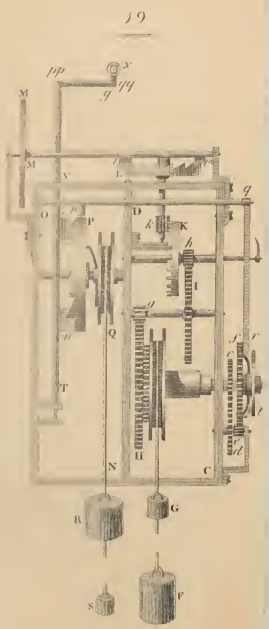


24

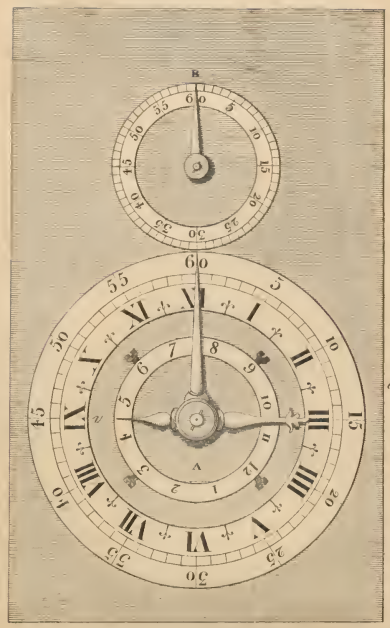


25

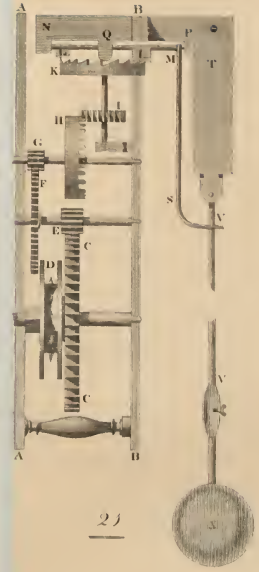
PLATE IV.



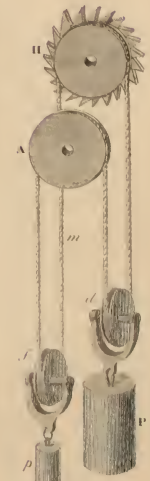
19



20

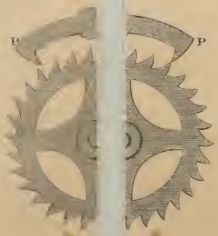


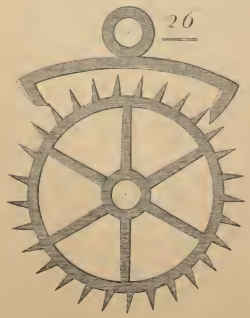
21



22

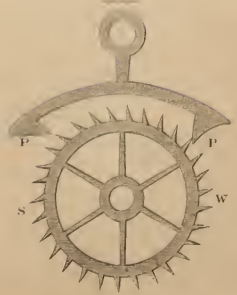
23





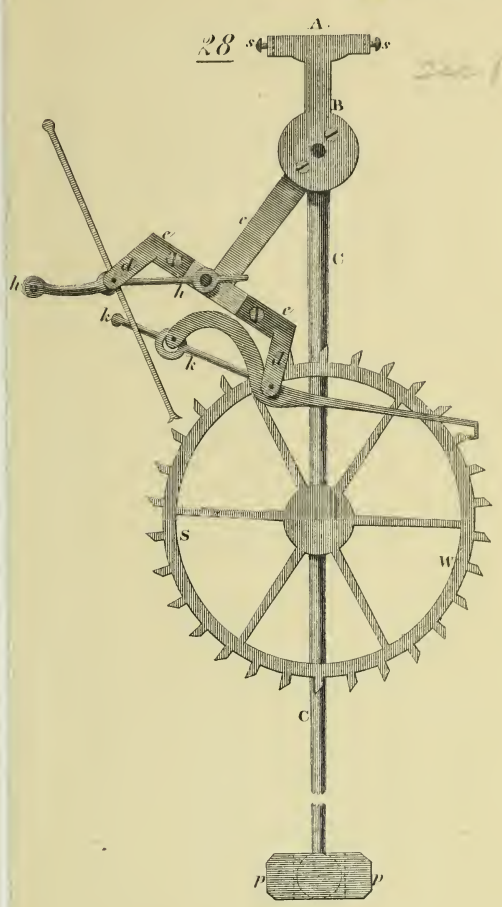
26

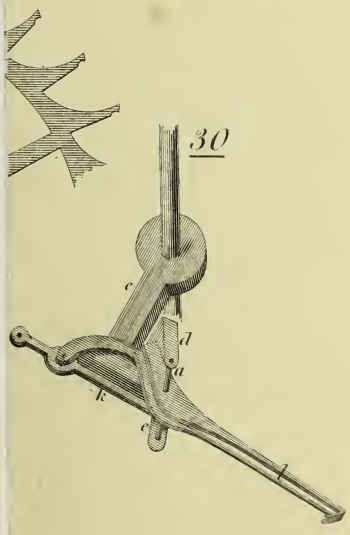
24



25

PLATE V.

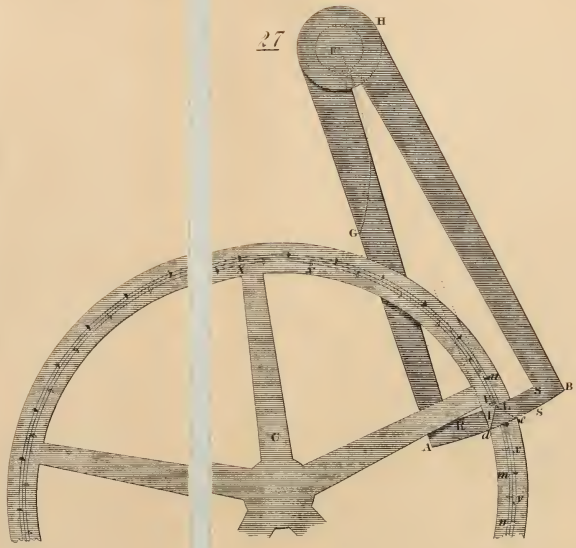




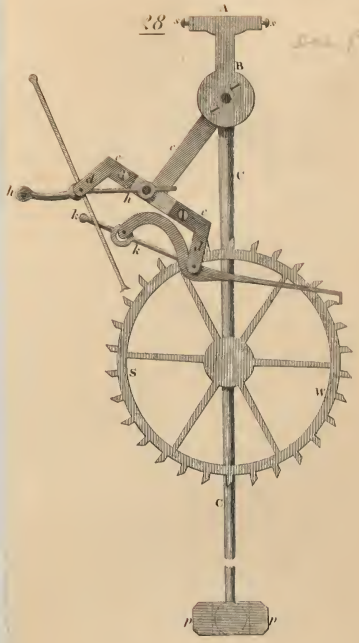
Engd. by Moffat & Smellie

PLATE V.

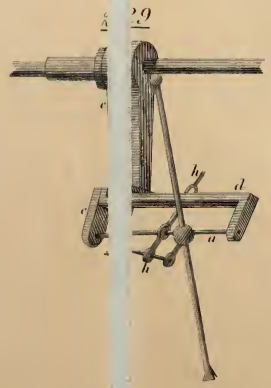
27



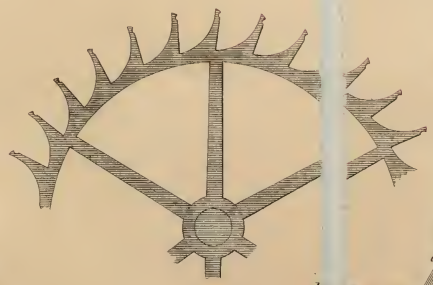
28



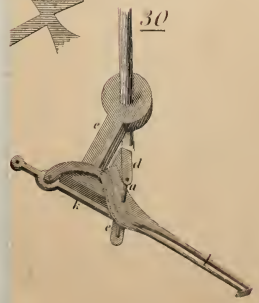
29



31



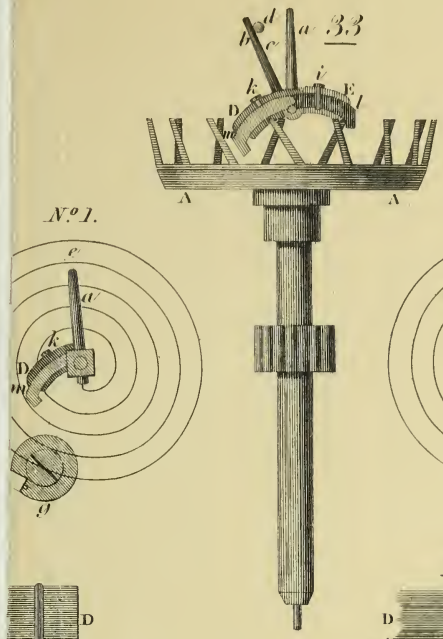
30

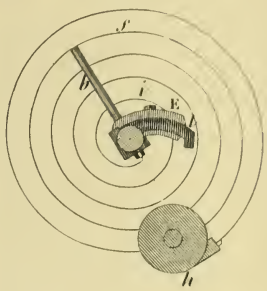


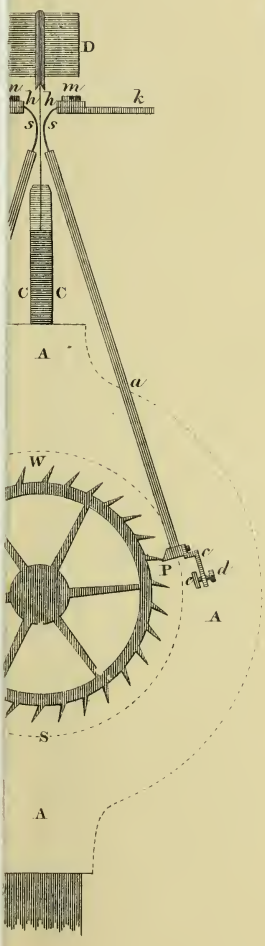
D

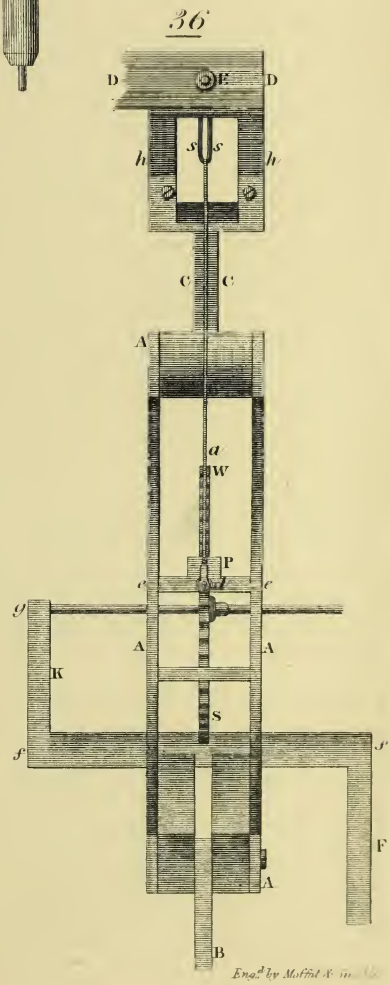
Engd by Moffat & Smelie

PLATE VI.

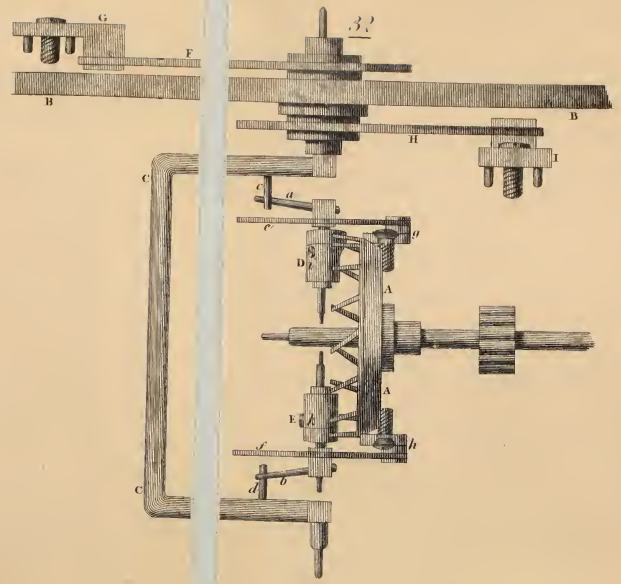


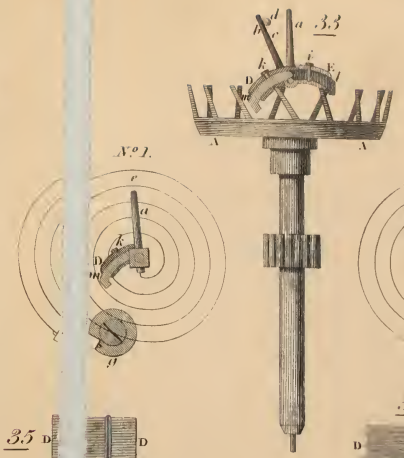


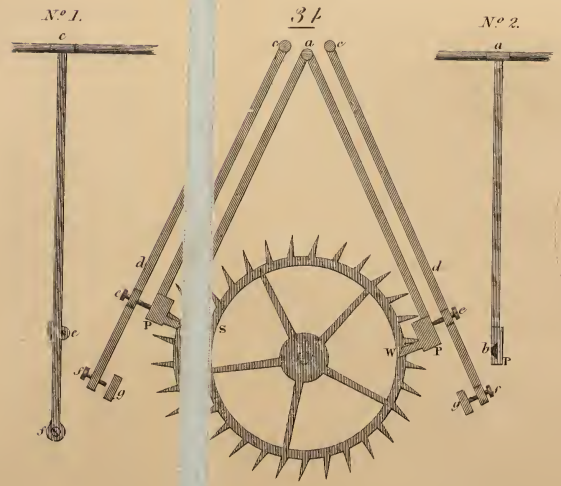




Engd by Moffat & Co.


32
G
F
B
B
H
I
C
C
A
A
D
E
k
h
b
d


33
A
A
Nº 1.
Nº 2.


Nº 1.
34
Nº 2.
S
W
F
P

35
D
D
k
k
C
C
A
a
a
W
P
P
A
A
S
A
B

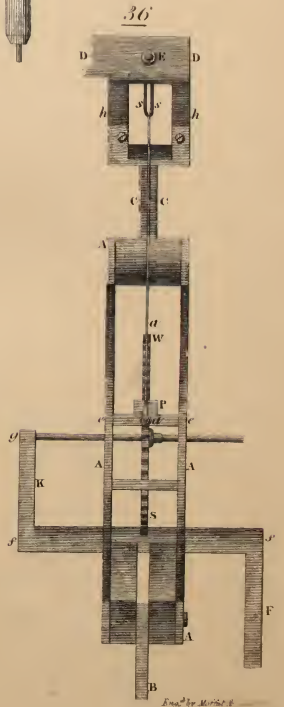
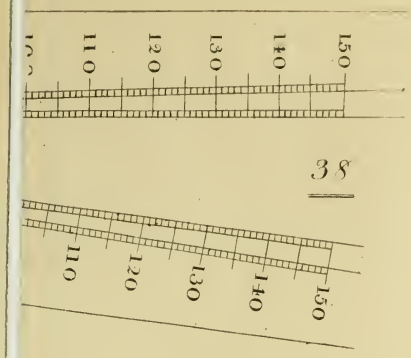
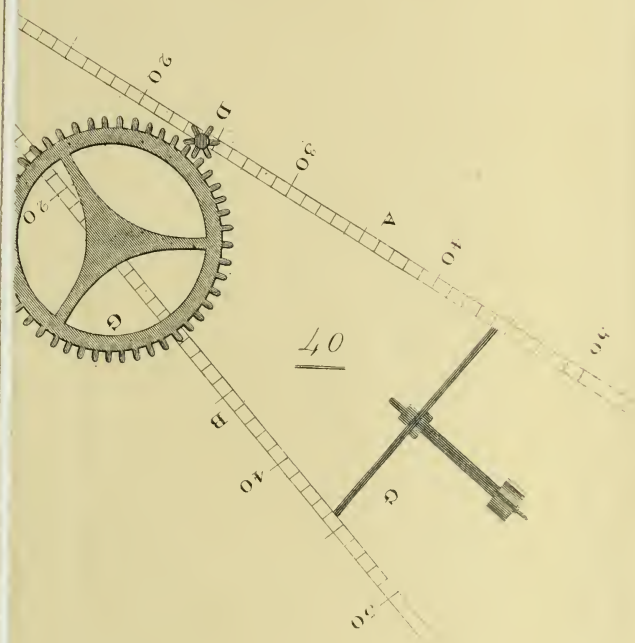

36
D
D
E
h
h
C
C
A
a
W
P
A
A
K
S
F
A
B

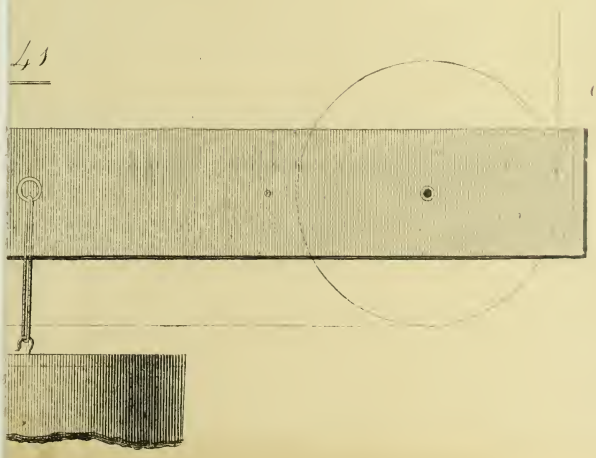
PLATE VII



38



40



43

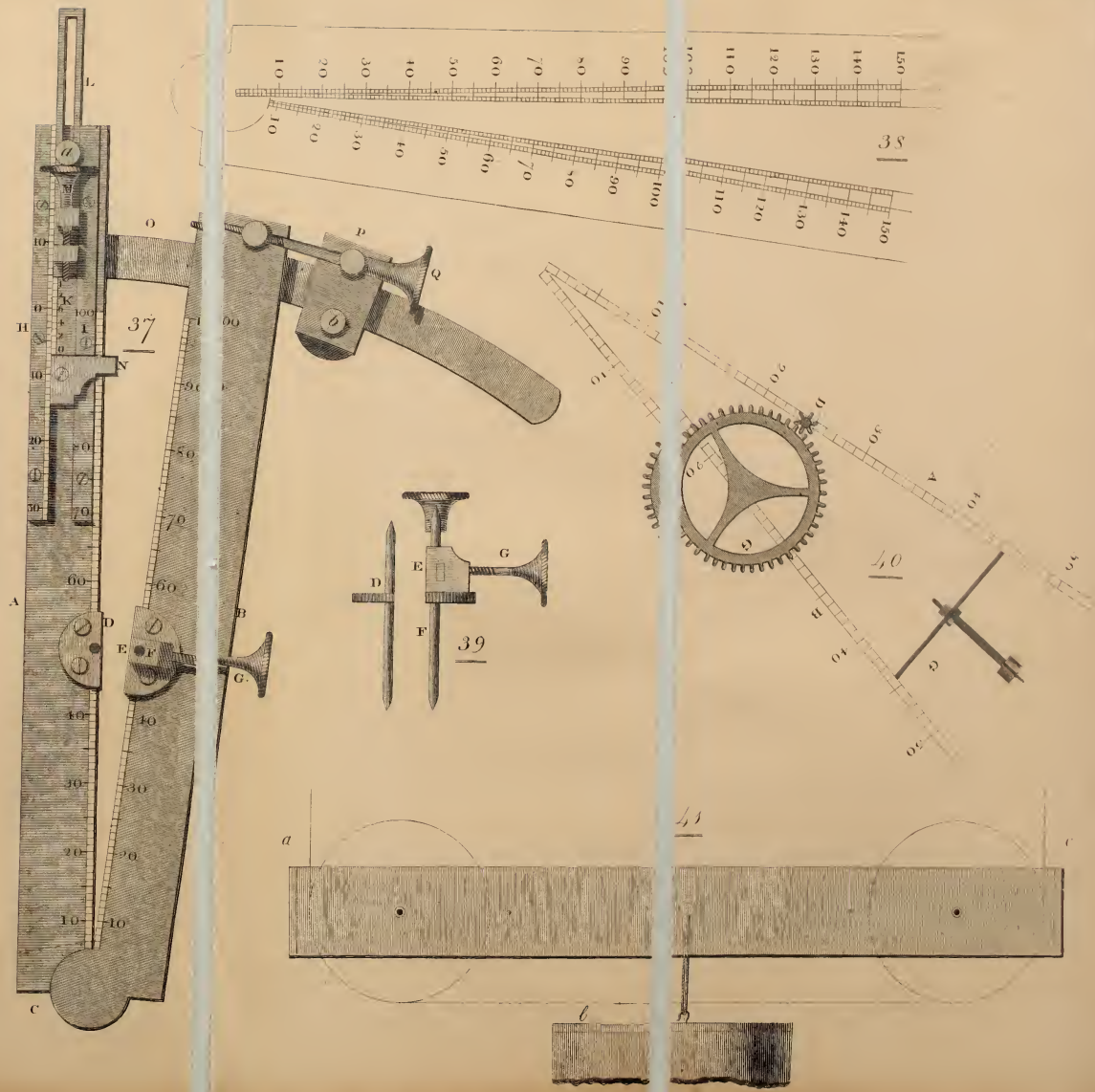
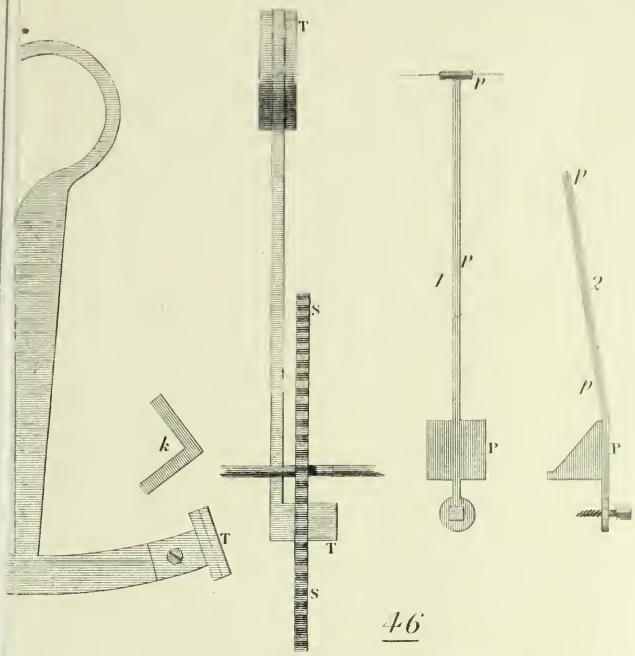
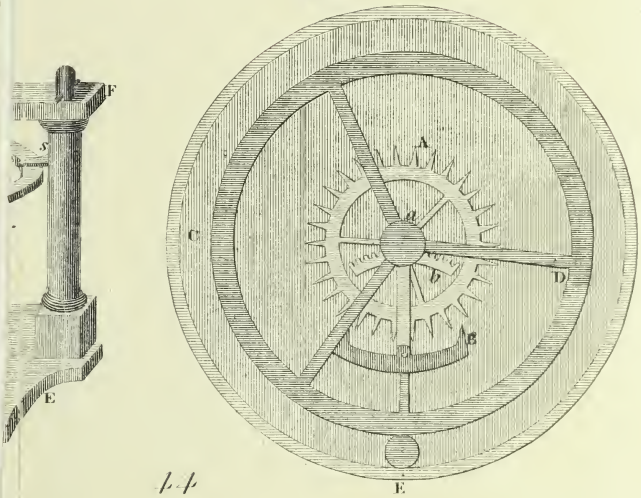

37
38
39
40
41
A
B
C
D
E
F
G
H
K
L
N
O
P
Q
a
b
c
d
e

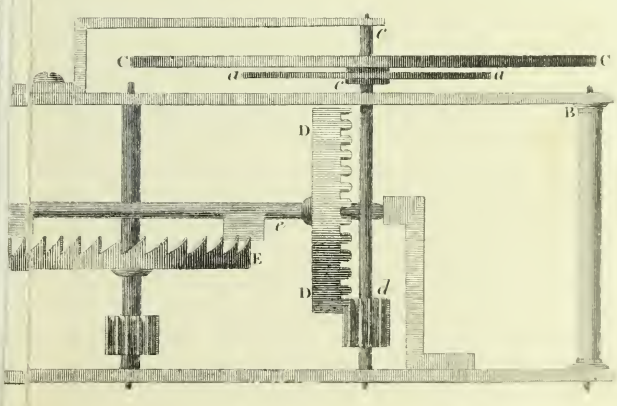
PLATE VIII.

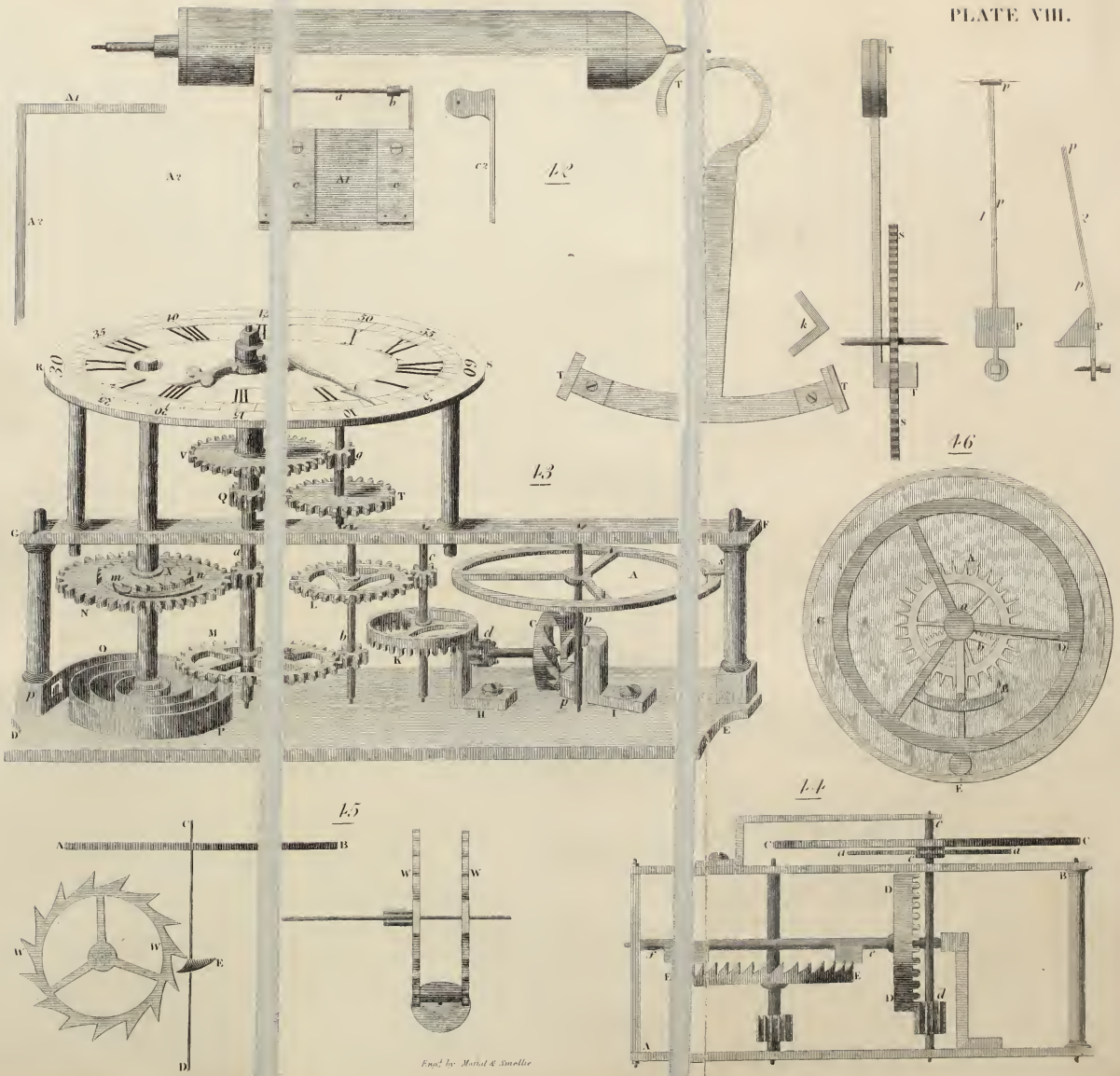


46



44



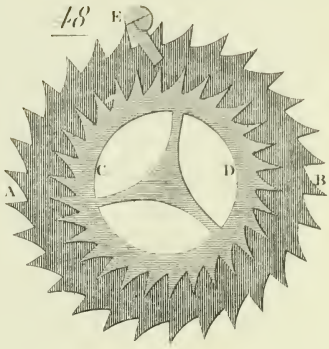


Engd by Mitchell & Smeller

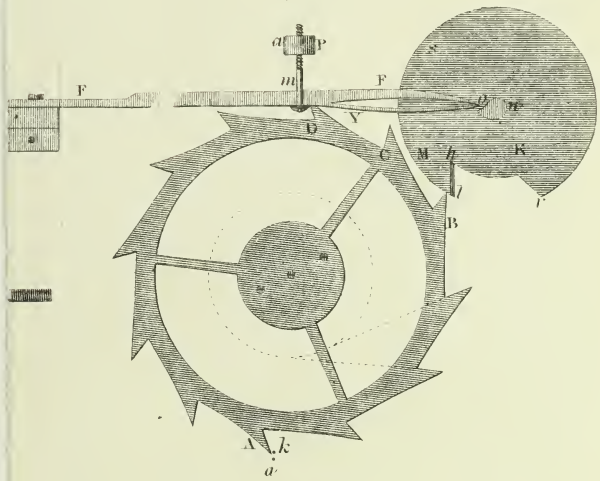
PLATE IX.

K
Nº 3

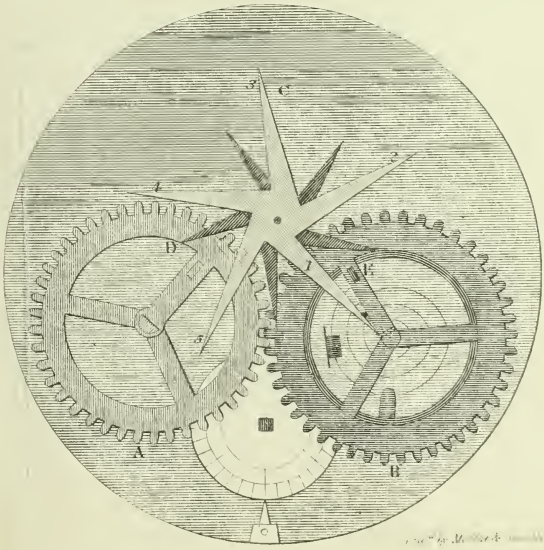
48



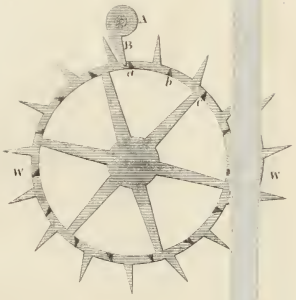
52



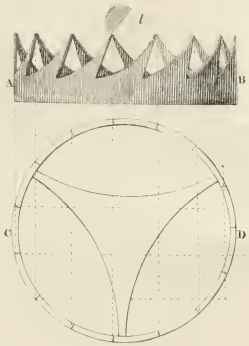
47



49

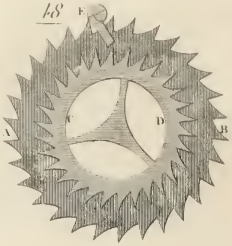


50 Nº 2

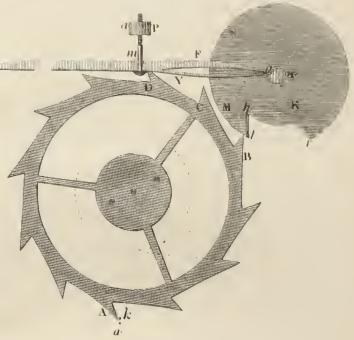


K
Nº 3

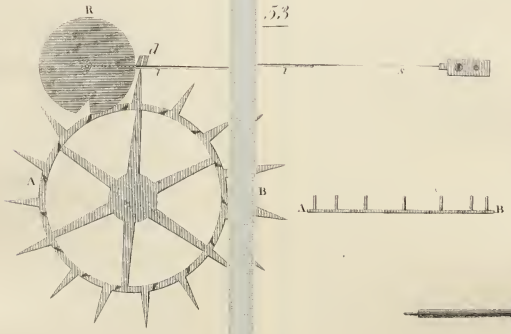
48



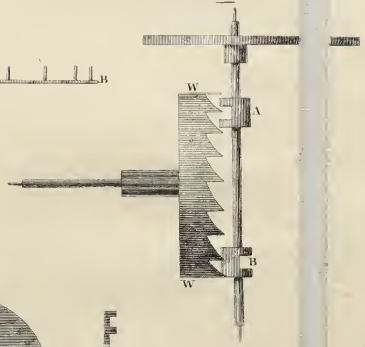
52



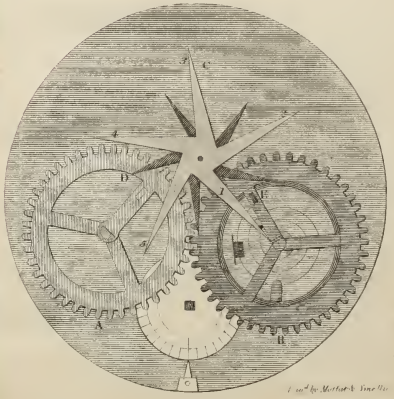
53



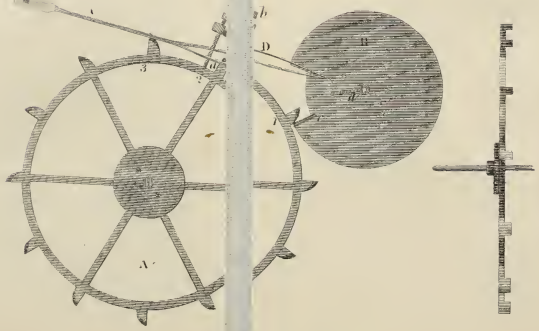
50 Nº 1



47



51

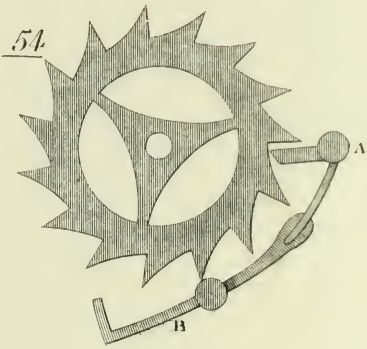


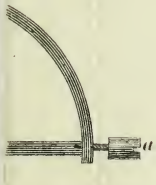
Engd by Mesars & Vinelli

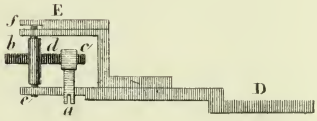
PLATE X.

No. 1.

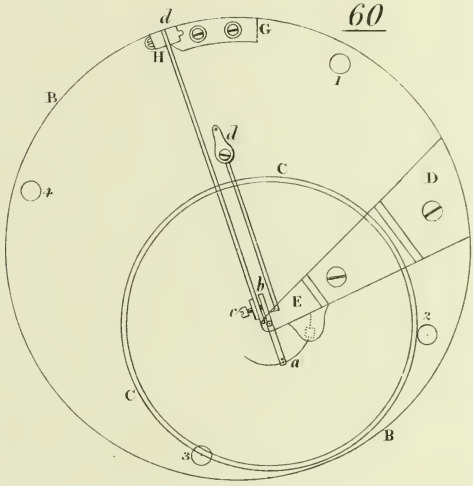
54

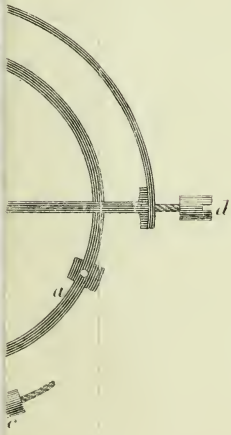




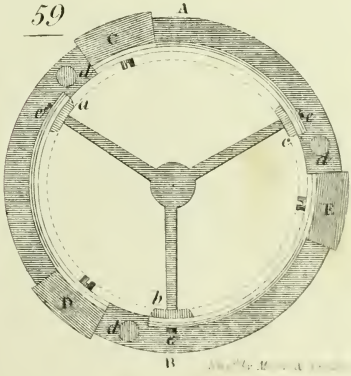


60





59



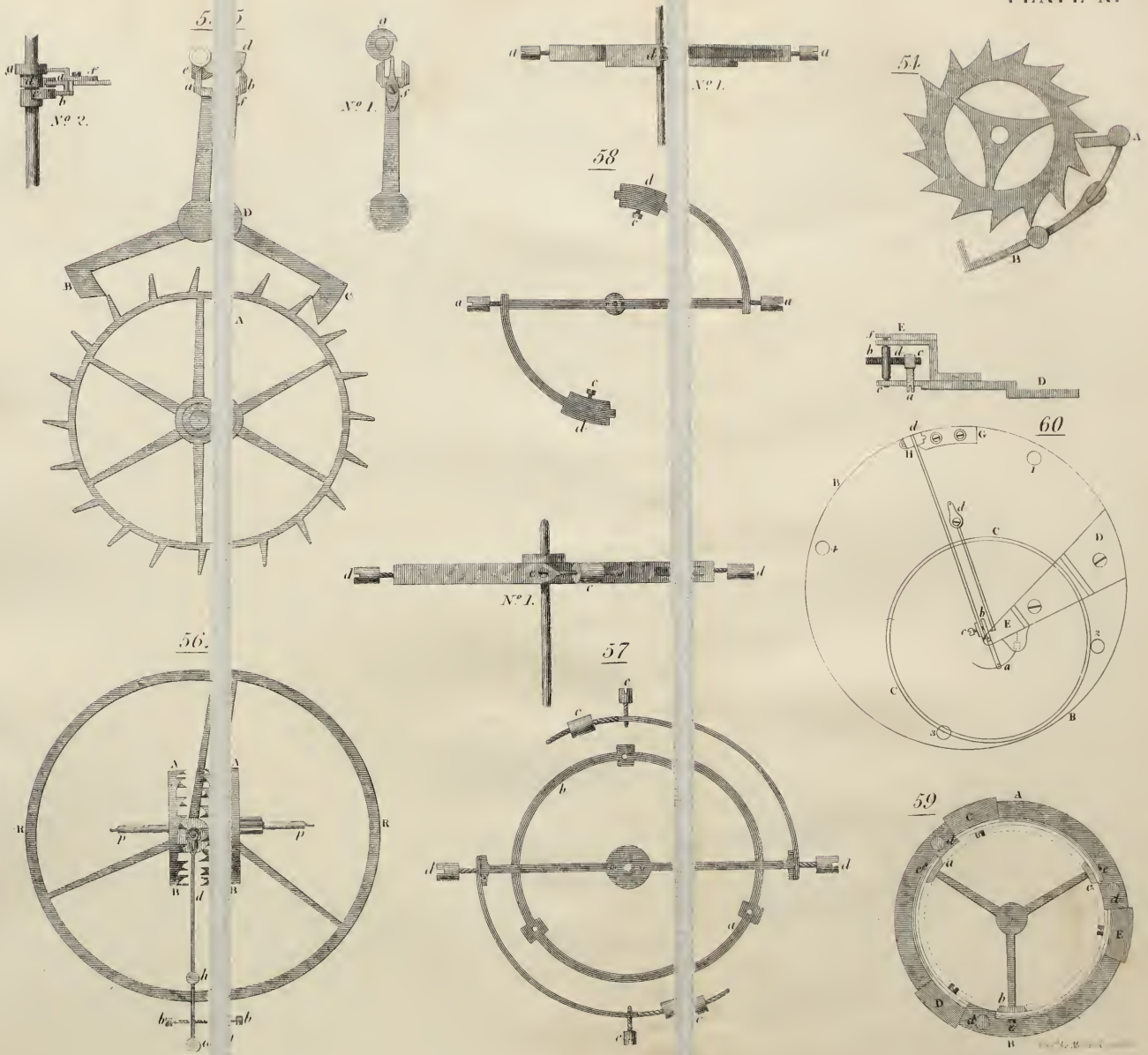
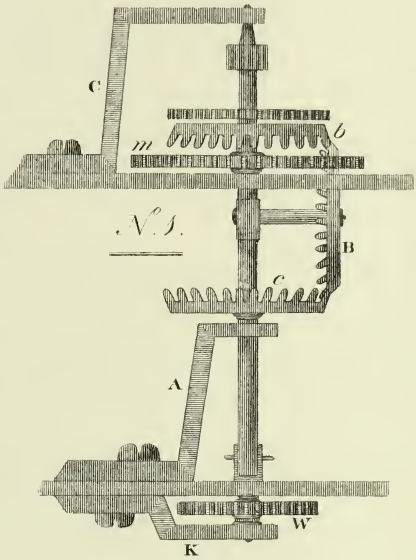

55.
Nº 2.
Nº 1.
Nº 1.
54.
58
Nº 1.
60
56.
57
59

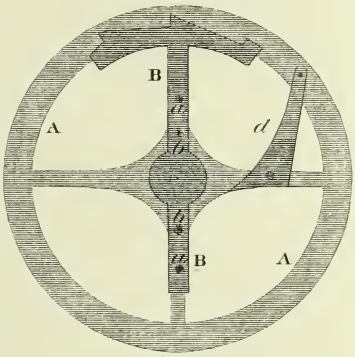
PLATE XI.

WHEEL WORK FOR EQUATION OF TIME &c.

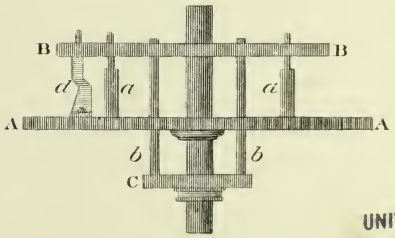
62



N.º 1.



N.º 2.

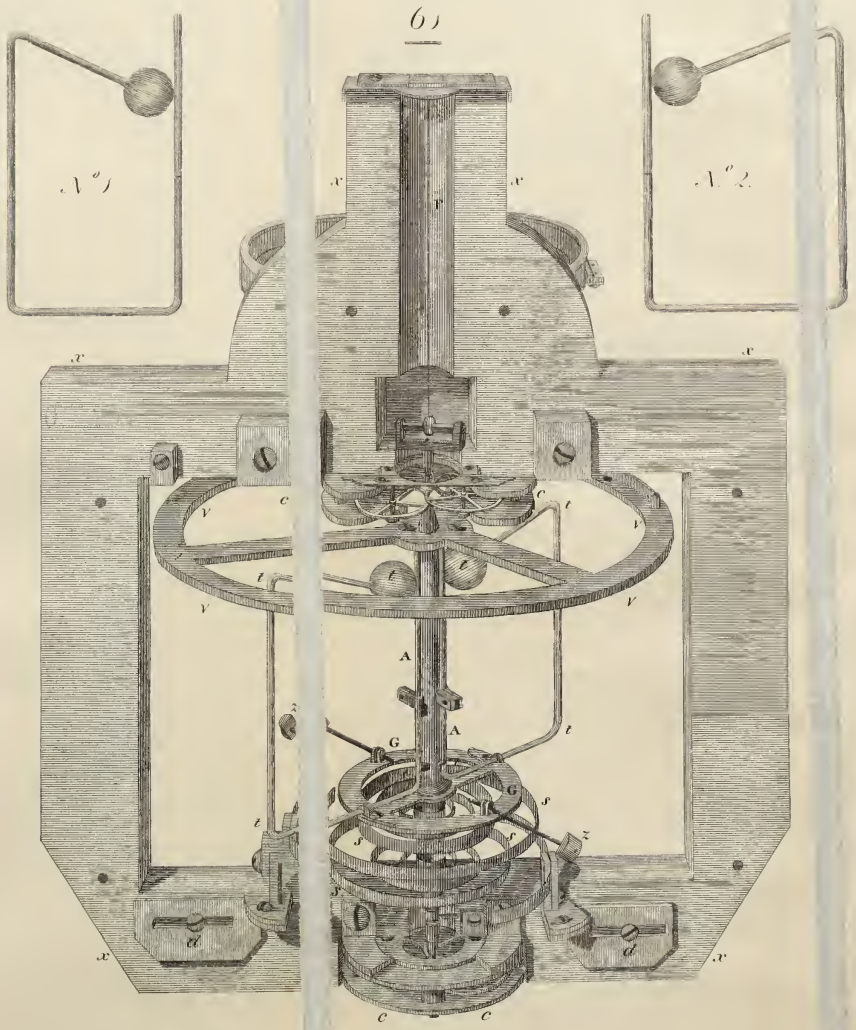


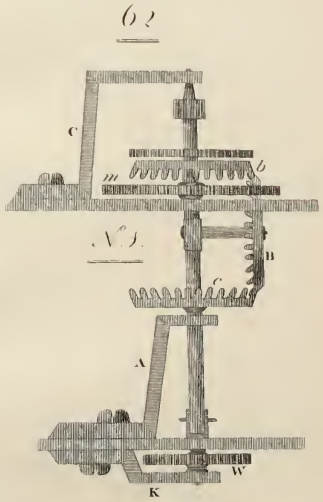
N.º 3.

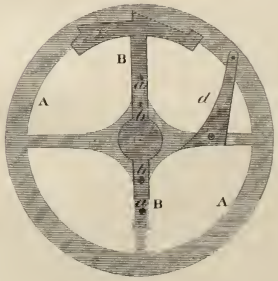
UNIVERSITY OF
ILLINOIS LIBRARY
AT URBANA-CHAMPAIGN

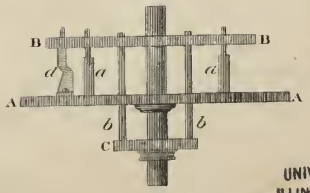
LE ROY'S MARINE TIME-KEEPER.

WHEEL WORK FOR EQUATION OF TIME &c.



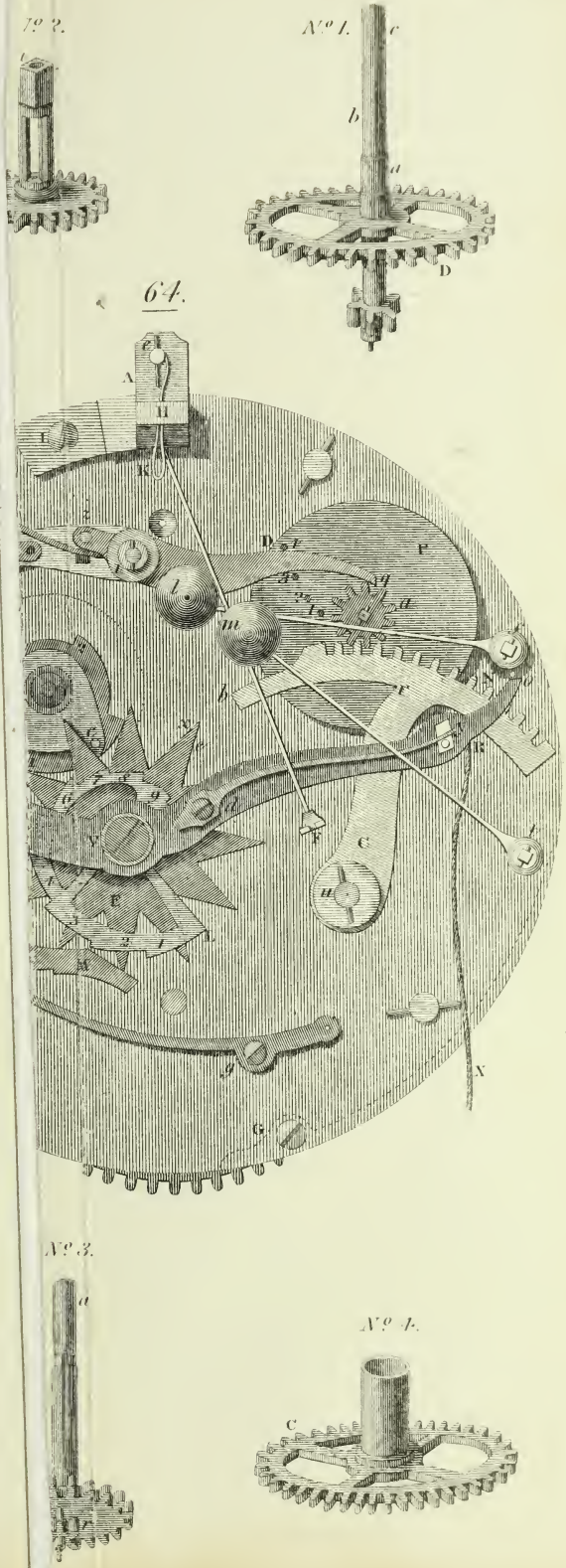


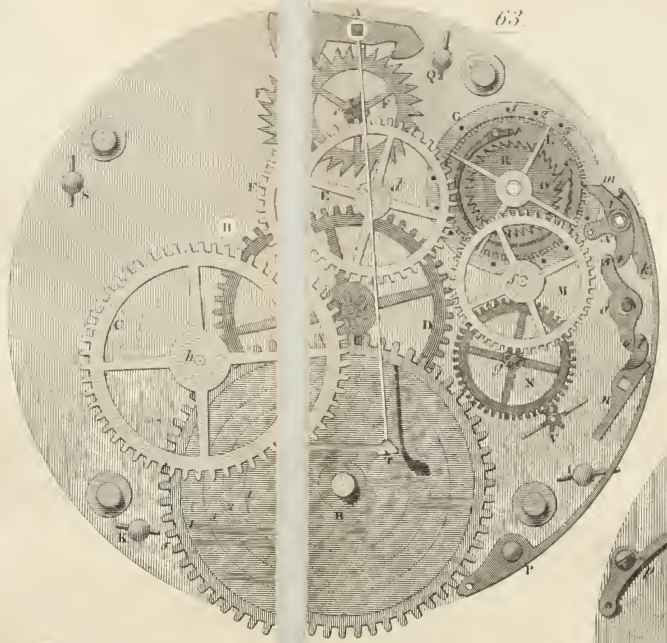




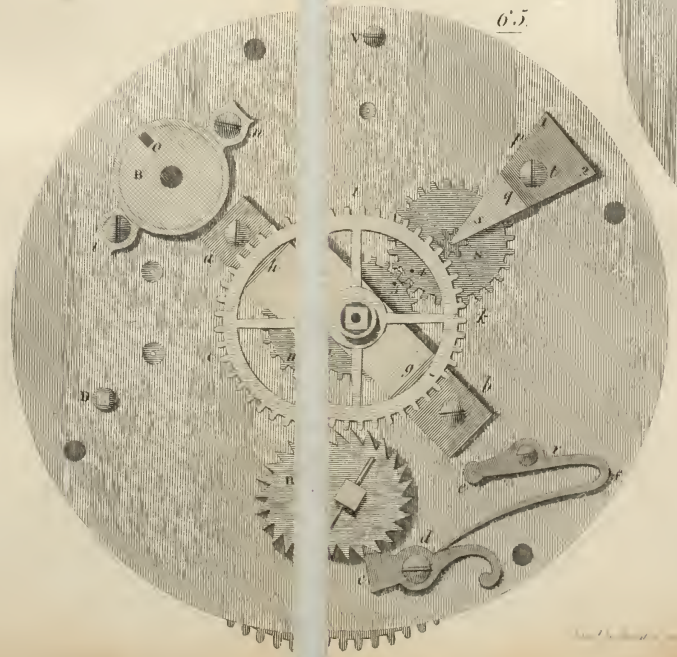
UNIVERSITY OF
ILLINOIS LIBRARY
AT URBANA-CHAMPAIGN

PLATE XII.

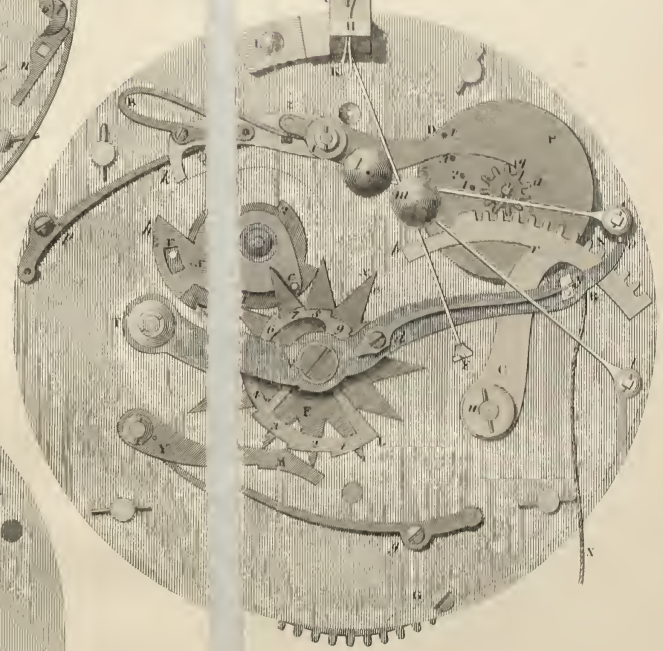




63.

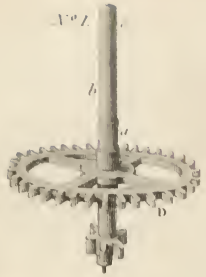


65.



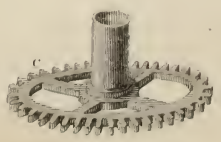
67.

N°2.



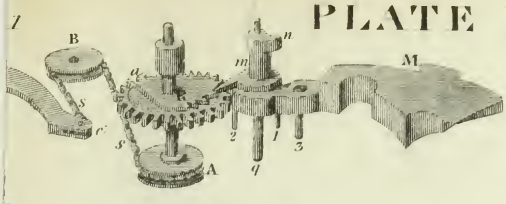
N°1.

N°3.

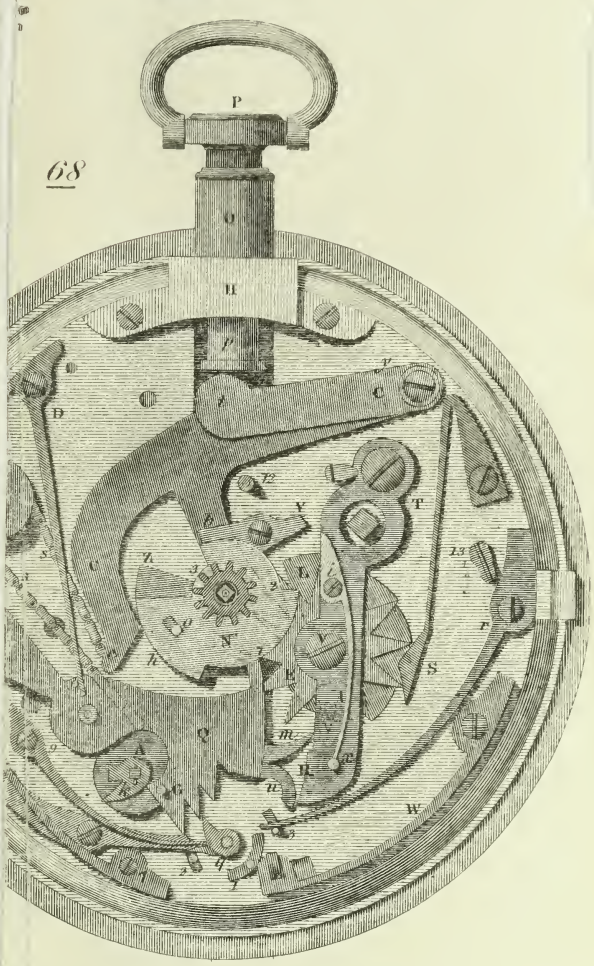


N°4.

PLATE XIII

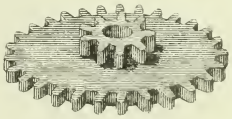


68

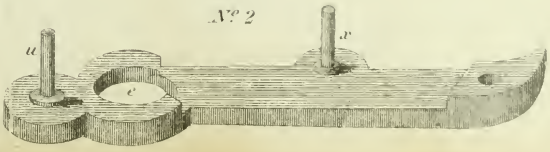


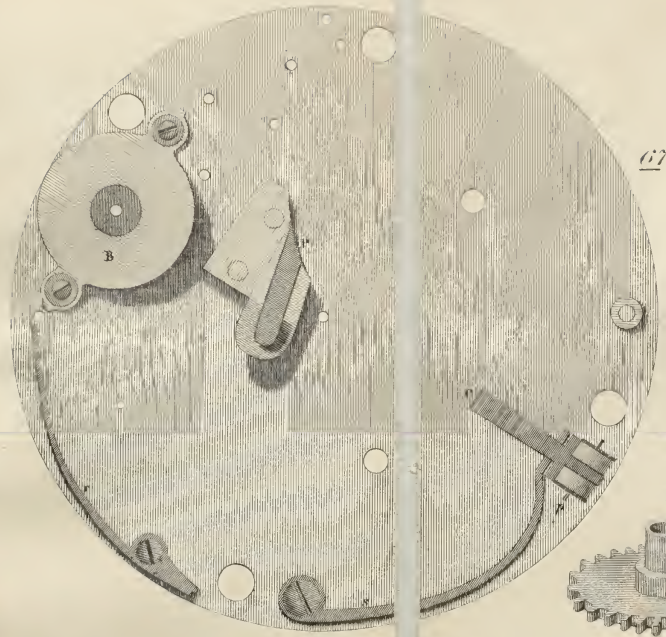
No 3

No 5



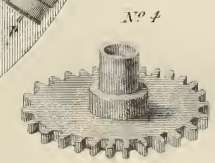
No 2

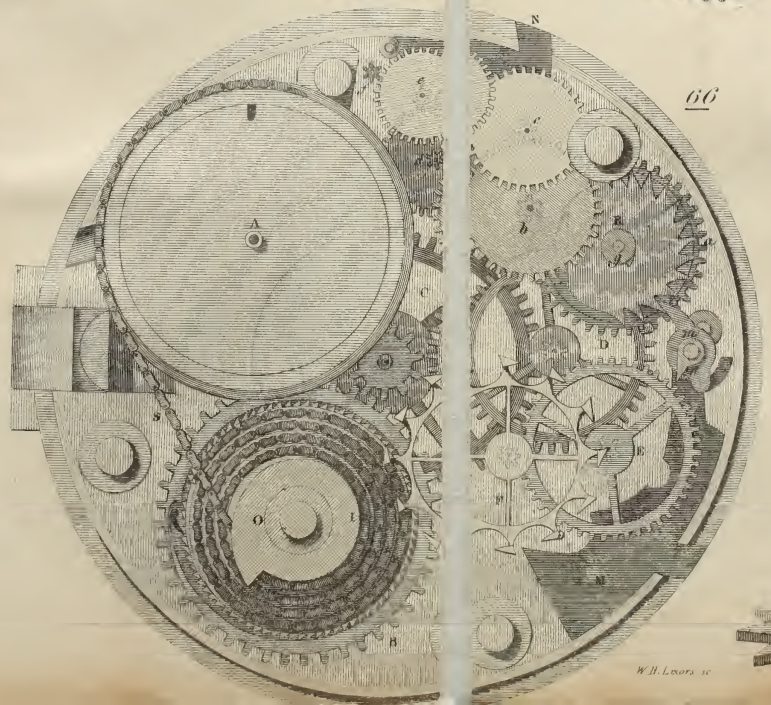


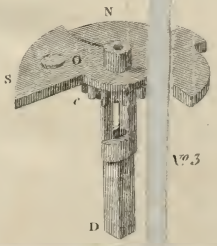

67

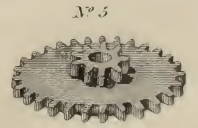
Nº 1

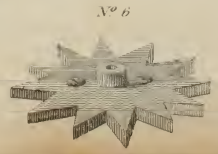
68


Nº 4


66
W.H. Lowrs sc


Nº 3


Nº 5


Nº 6

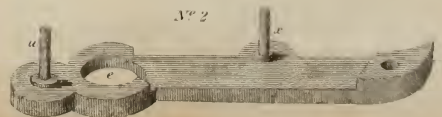
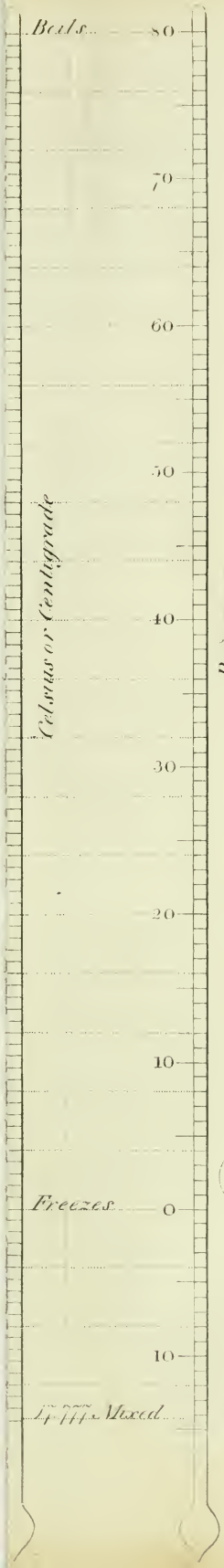
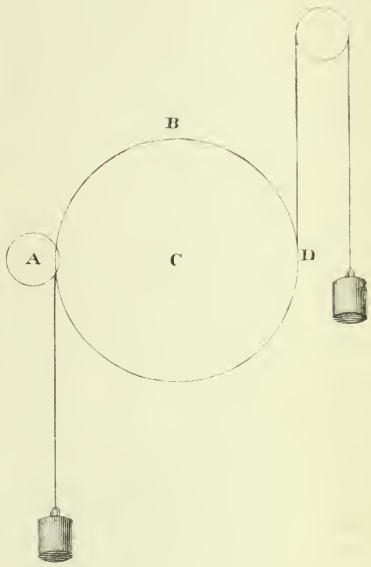

Nº 2

PLATE XIV.


Boils
80
70
60
50
40
30
20
10
0
10
Celsius or Centigrade
Reaumur
Freezes
Mixed
14.222


A
B
C
D

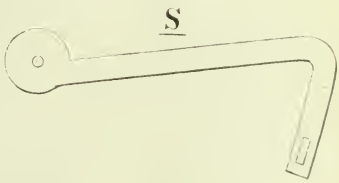
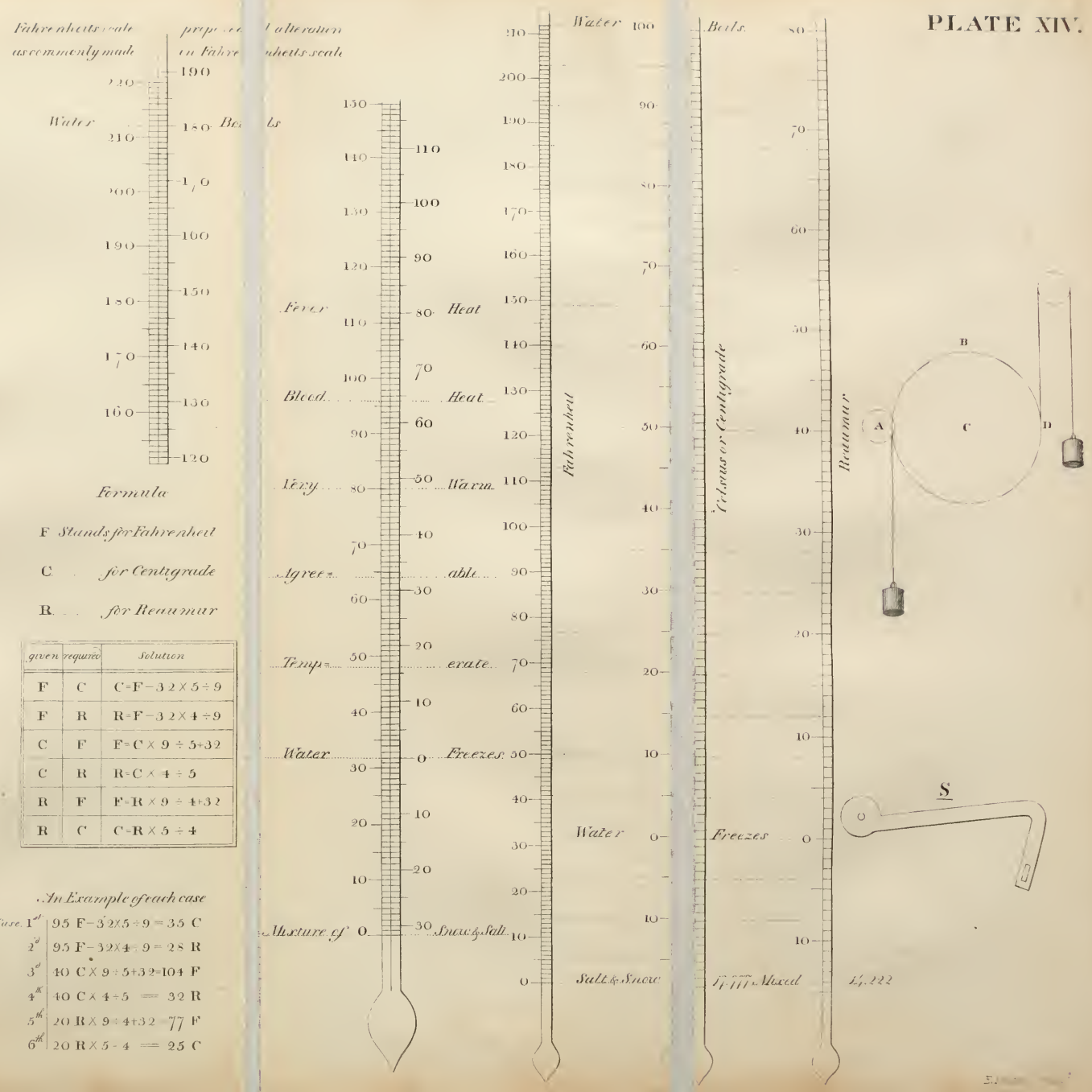

S

PLATE XIV.



Formula

F *Stands for Fahrenheit*

C *for Centigrade*

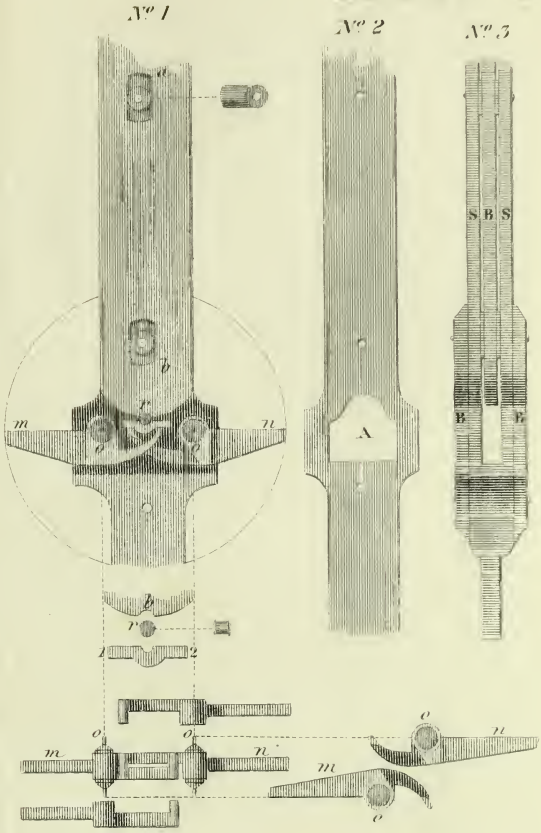
R *for Reaumur*

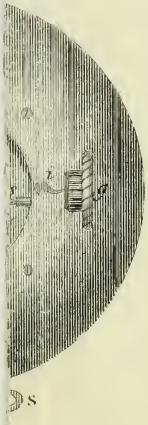
given	required	Solution
F	C	C=F−32×5÷9
F	R	R=F−32×4÷9
C	F	F=C×9÷5+32
C	R	R=C×4÷5
R	F	F=R×9÷4+32
R	C	C=R×5÷4

An Example of each case

Case 1st	95 F−32×5÷9 = 35 C
2d	95 F−32×4÷9 = 28 R
3d	40 C×9÷5+32=104 F
4th	40 C×4÷5 = 32 R
5th	20 R×9÷4+32 = 77 F
6th	20 R×5÷4 = 25 C

PLATE XV





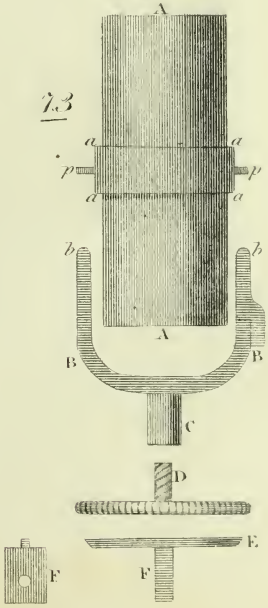


PLATE XV

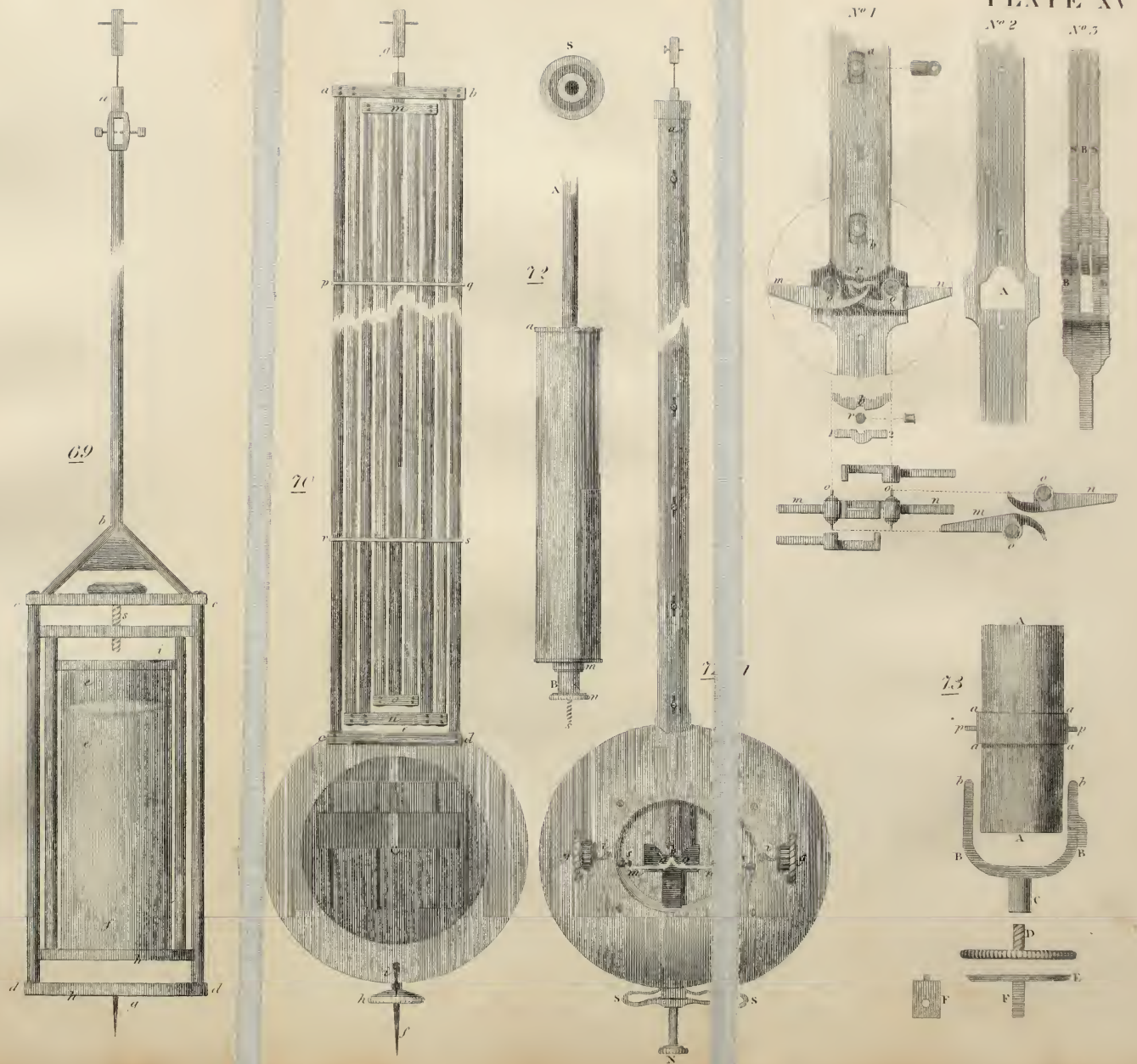


PLATE XVI

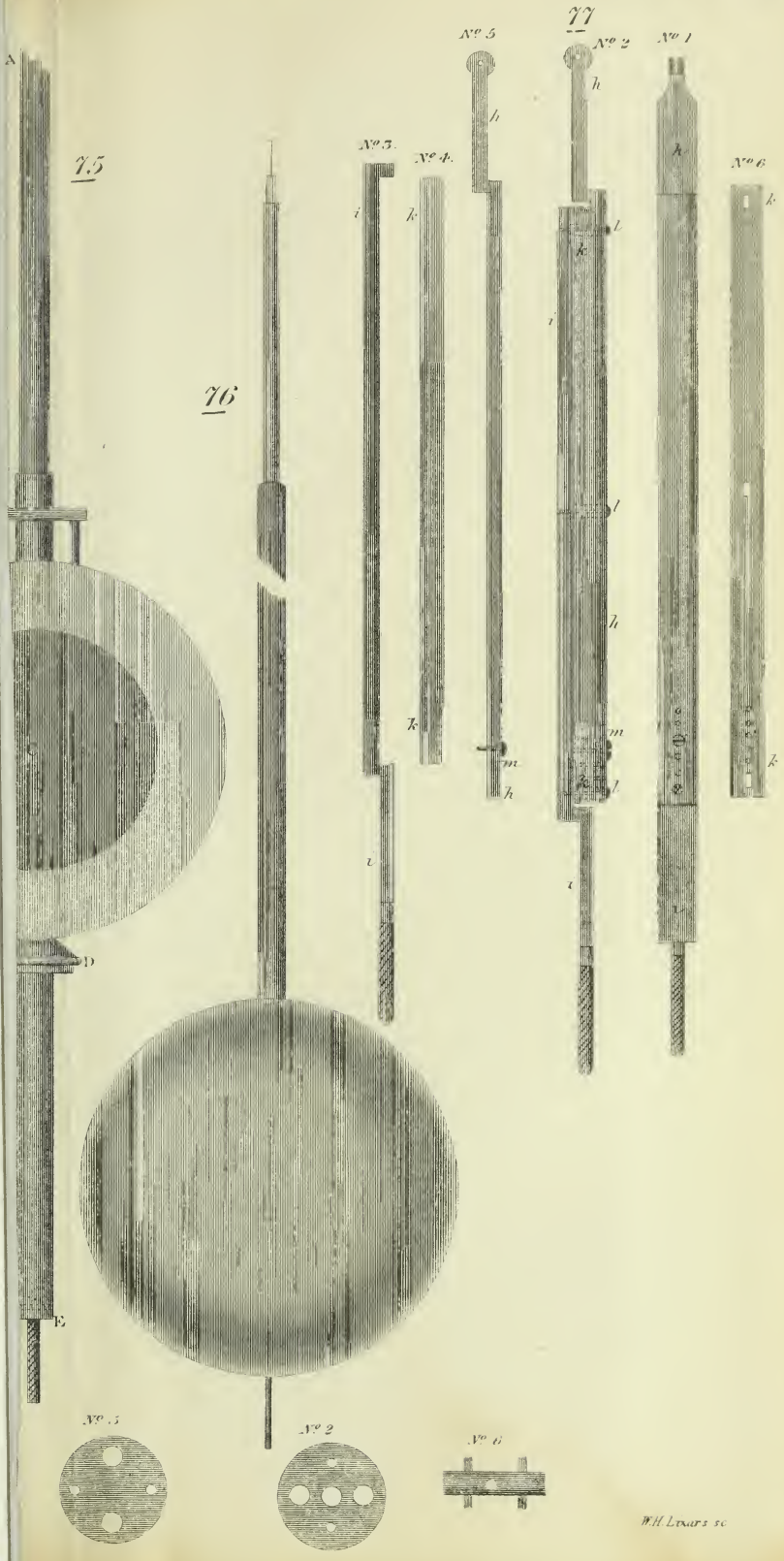


PLATE XVI

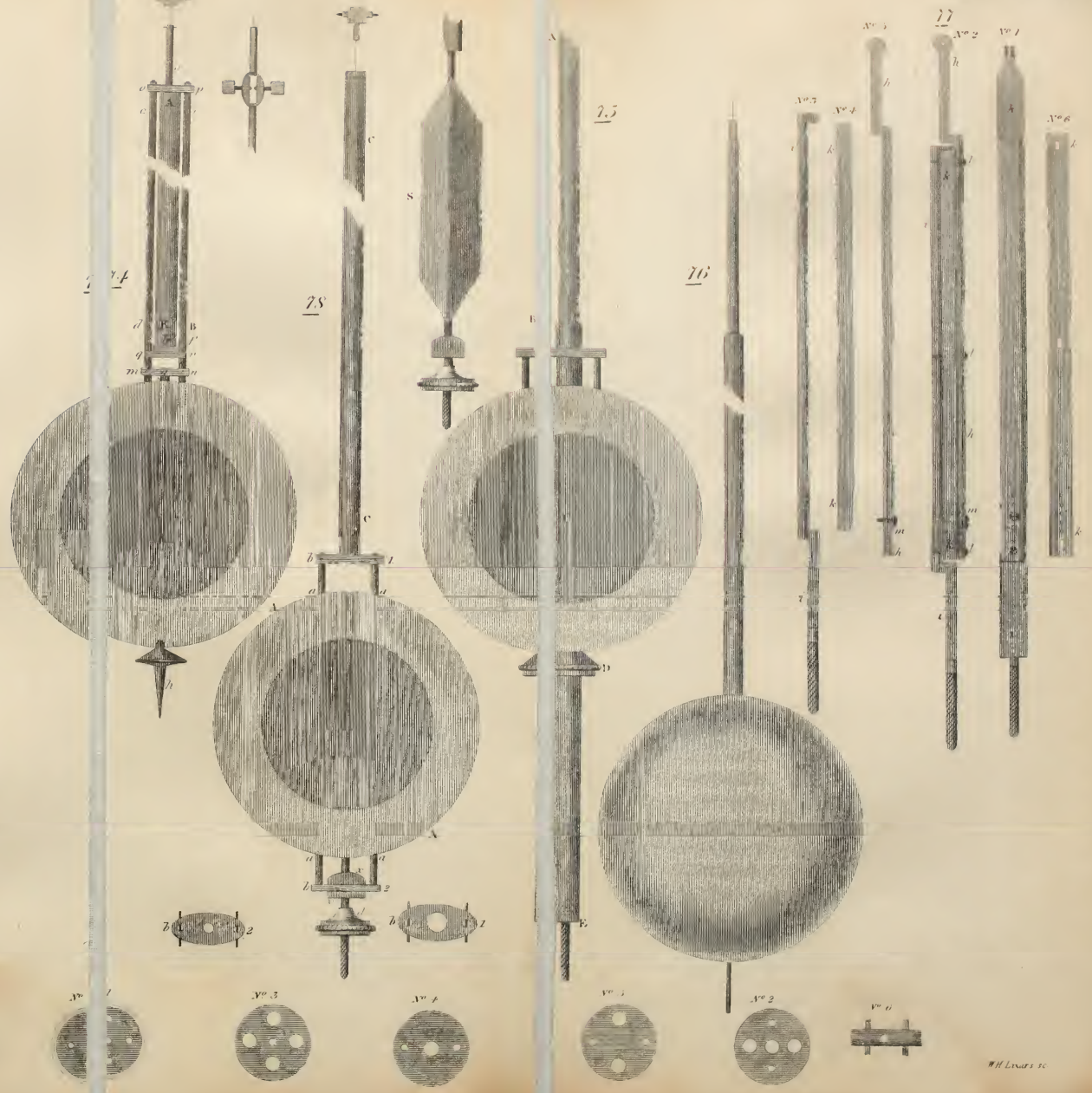
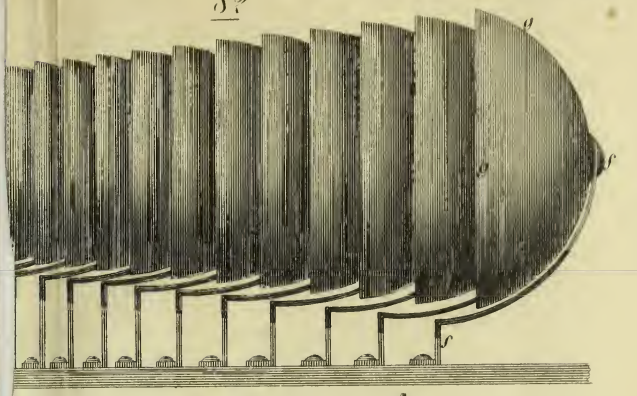
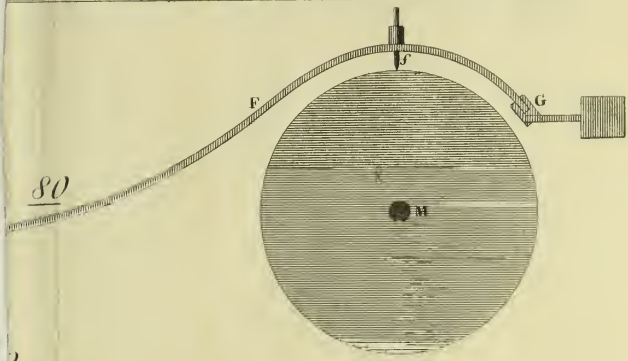
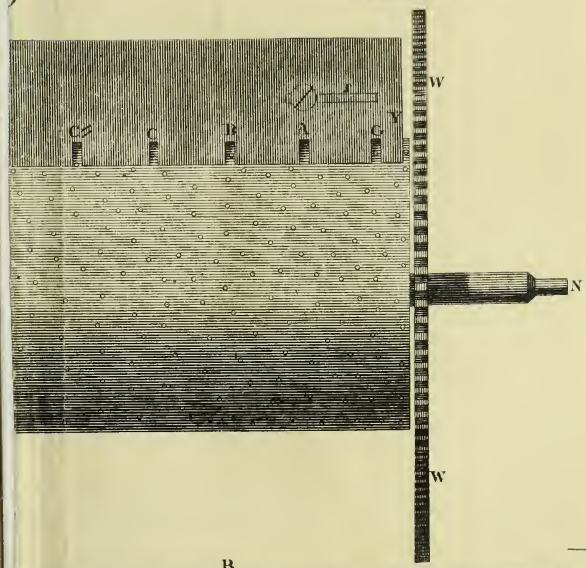
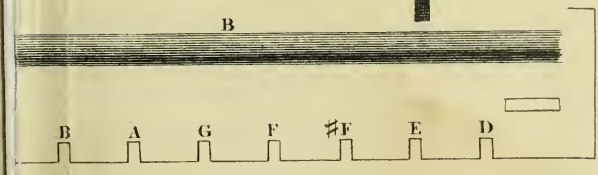


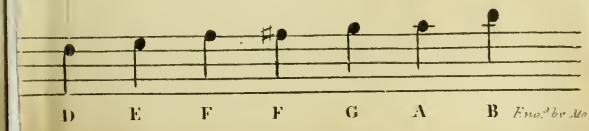
PLATE XVII.











Engd. by Moffat & Sons

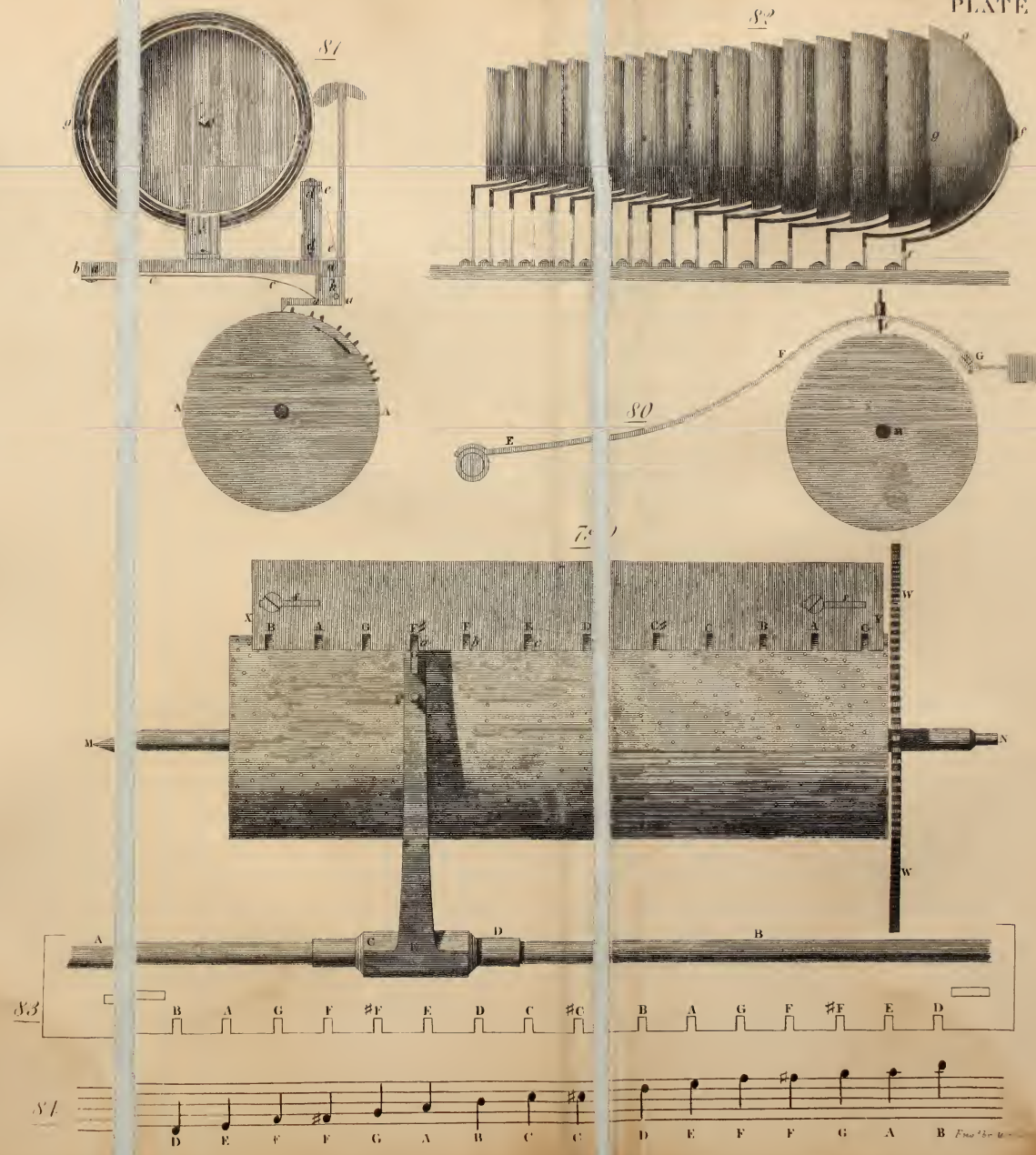

81
82
80
79
83
84
B A G F #F E D C #C B A G F #F E D
D E F F G A B C C D E F F G A B

PLATE XVIII.

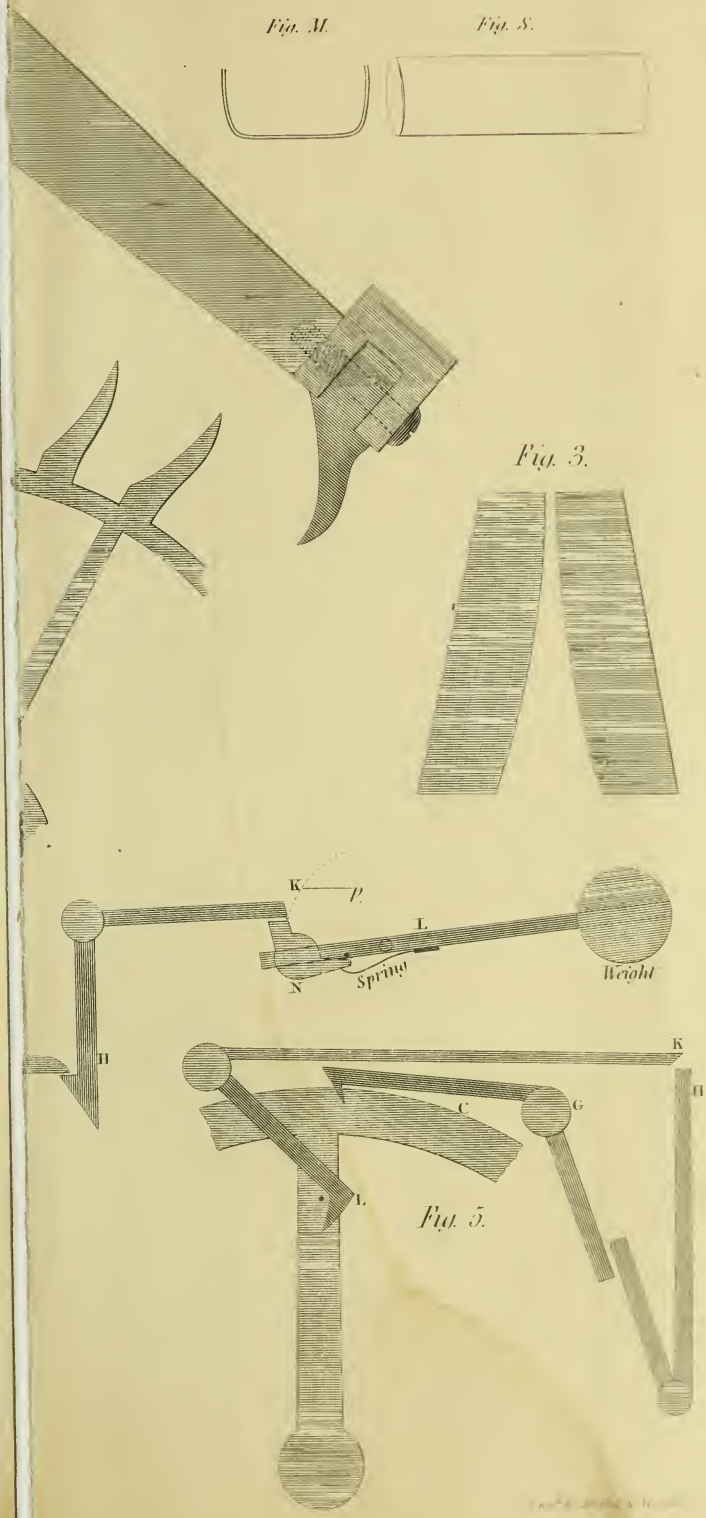


PLATE XVIII.

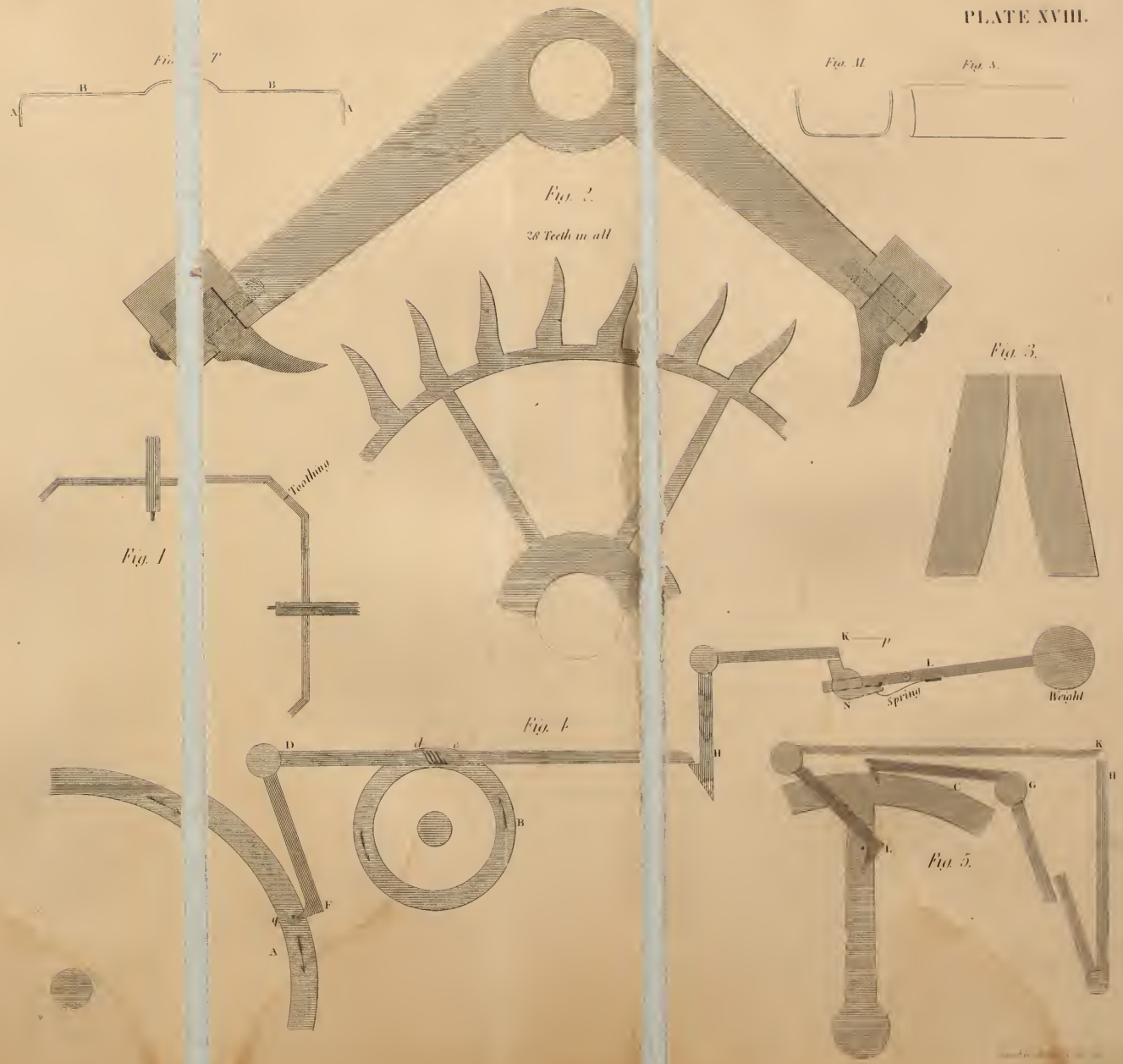


Fig. 7
B
B
A
A
Fig. M
Fig. S.
Fig. 2.
28 Teeth in all
Fig. 3.
Toothing
Fig. 1
K
P
L
N
Spring
Weight
Fig. 4
D
d
c
H
B
F
G
A
K
H
C
G
L
Fig. 5.

PLATE XIX.

Fig. 3.

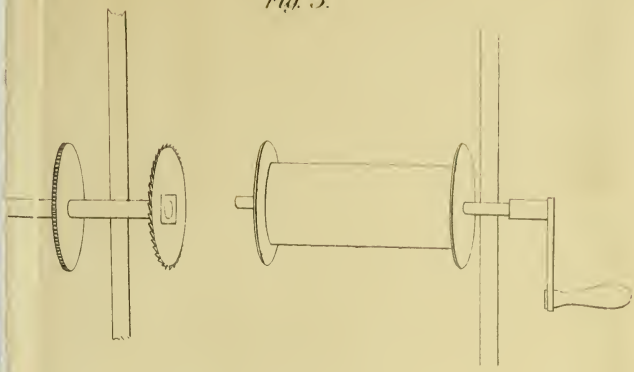


Fig. 2.

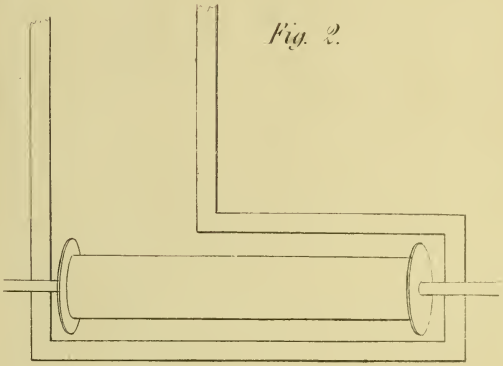


Fig. 7.

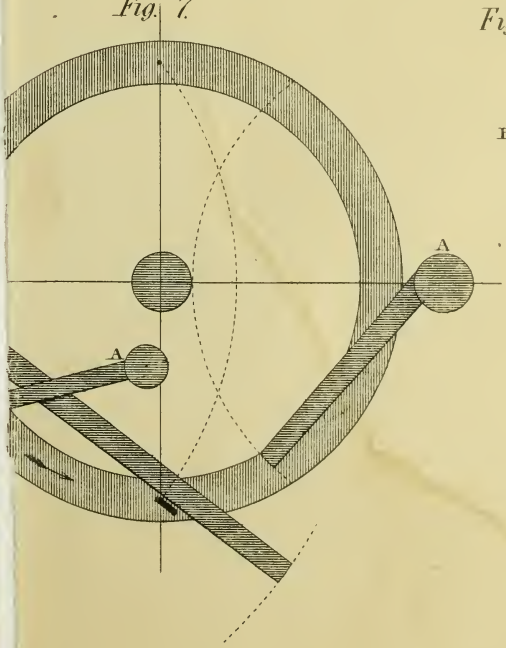
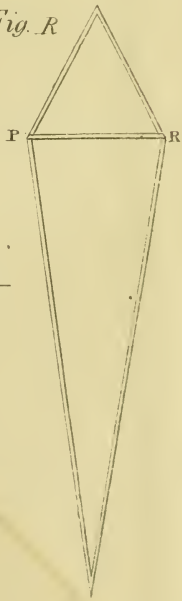


Fig. R



Engd. by Mallet & Co. &c.

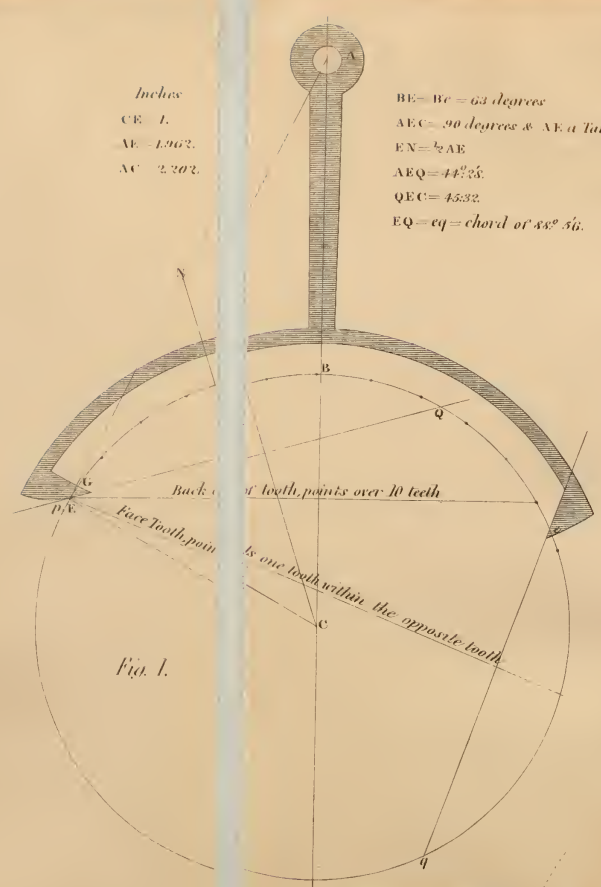


Fig. 1.

Fig. 3.

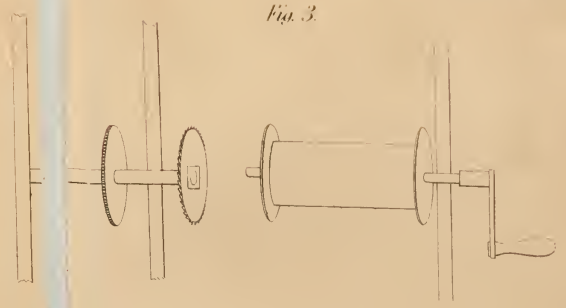


Fig. 2.

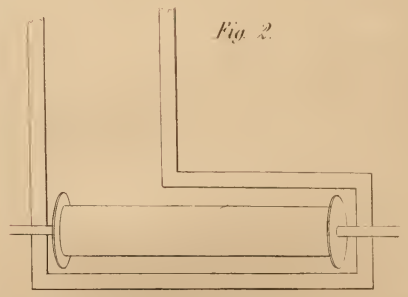


Fig. 6.

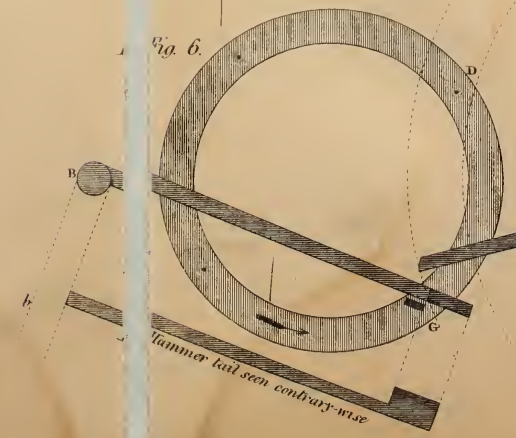


Fig. 7.

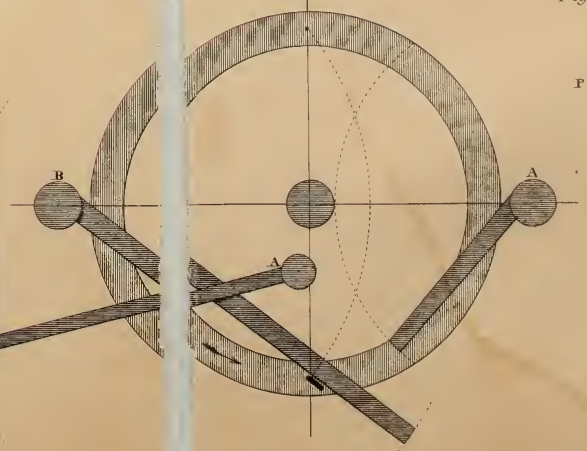
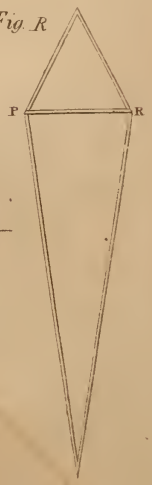


Fig. R



Engd. by M. Miller & Son

BOUND BY
HNM

UNIVERSITY OF ILLINOIS-URBANA
3 0112 050284808